SAMASUNG SV-4000W

MODEL

SERVICE MANUAL

2. Reference Information

2-1 Servicing Jigs and Special Tools

2-1-1 Servicing guide

1. For this VCR chassis, the program switch and the sensors (start/end/reel) are located on the main PCB, not on the deck ass'y.

2. As long as the deck ass'y is connected to the main PCB, all repairs are possible.
   Important : In order to repair the main PCB without the deck ass'y connected, the X-5 chassis jig should be used.

3. To emulate the function of the sensors, connect a jumper or solder land (two point) at service option(W750) on the timer PCB. Be sure not to operate function key within 6 seconds.

4. The X-5 chassis jig can be used for the following :

1) When repairing or confirming the operation of the deck ass'y.
2) When replacing or repairing the components located under the deck ass'y.
3) When repairing the function PCB.

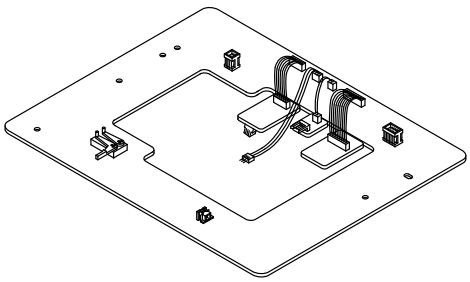
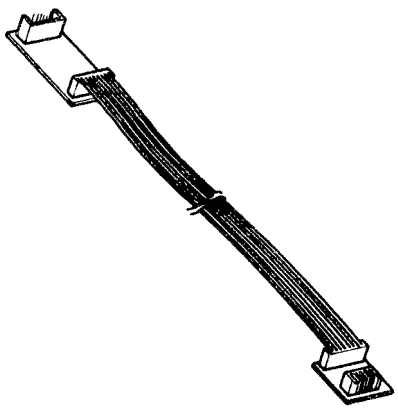
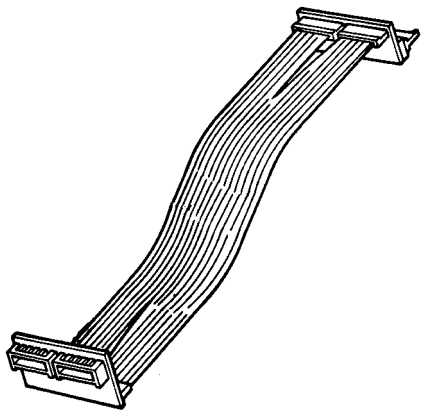
5. The X-5 chassis jig can not be used for the following :

1) Repairing defects in the video section.
2) Repairing defects in the audio section.
3) If the defect is related to tape speed.

Note :
1) Repair may not be possible if there is external noise between the deck ass'y and main PCB.
2) If tape control signal is not connected to the jig, the VCR must be operated in SP mode.

2-1-2 Servicing Jig

Jig Item	Part No.	Use
X-5 Chassis Jig	68140-500-013	Connects the deck ass'y to the main PCB connecting cable.
E/Cable 1	68140-300-105	Use for ASS'Y SMPS (CN01) ↔ ASS'Y MAIN (CN101) connecting cable.
E/Cable 2	68140-500-104	Use for ASS'Y TIMER (CN703, CN704)↔ASS'Y JOINT (CN8J01, CN8J02)

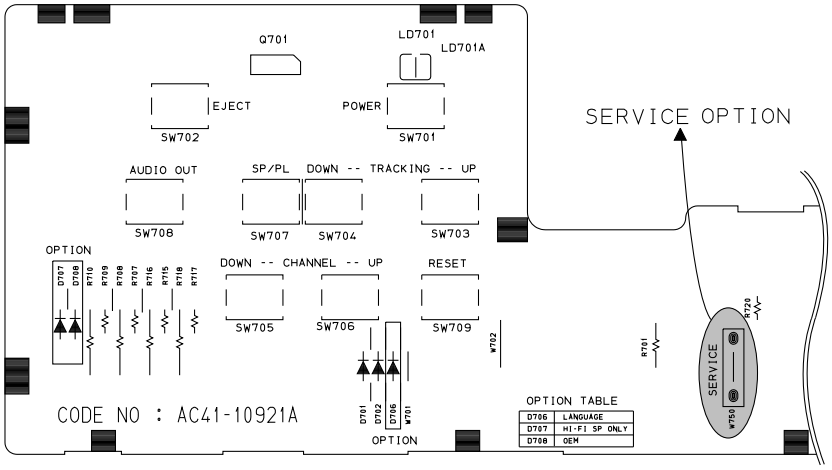
X-5 Chassis Jig	E/Cable 1	E/Cable 2
		

2-1-4 How to Connect X-5 chassis jig

1. Unplug the power cord from AC outlet.

2. Remove the deck ass'y from main PCB (See Page 4-5 of service manual).

3. To emulate the function of the sensors, place a jumper or solder land (two point) at service option(W750) on the timer PCB. Be sure not to operate function key within 6 seconds. (see diagram below).



Function-Timer (Conductor side)

Note : After completing repairs, turn power off in order to reset.

4. Insert wafers of drum motor, capstan motor and loading motor on X-5 chassis jig into each of the connectors of deck ass'y, and then secure with three screws.

5. Solder the 3 leads of the jig cable to "CN608" on the main PCB.

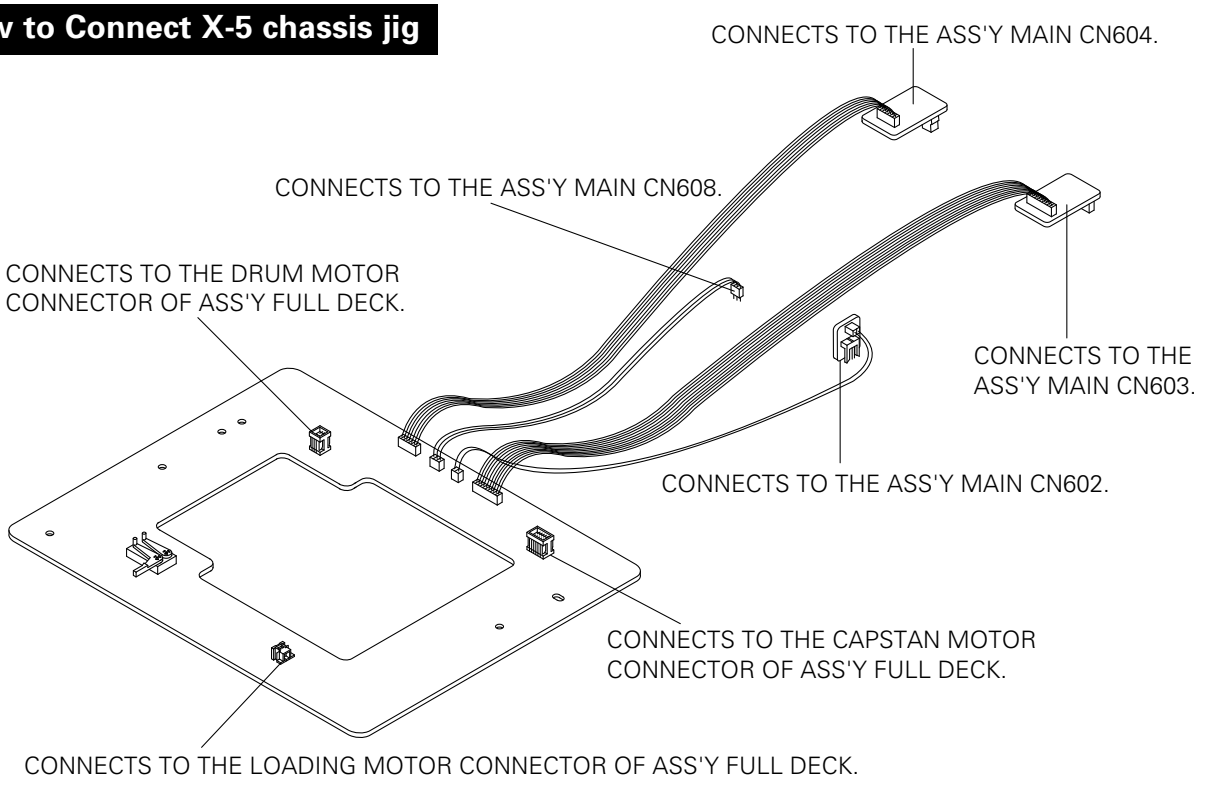
6. Apply power to the function PCB.

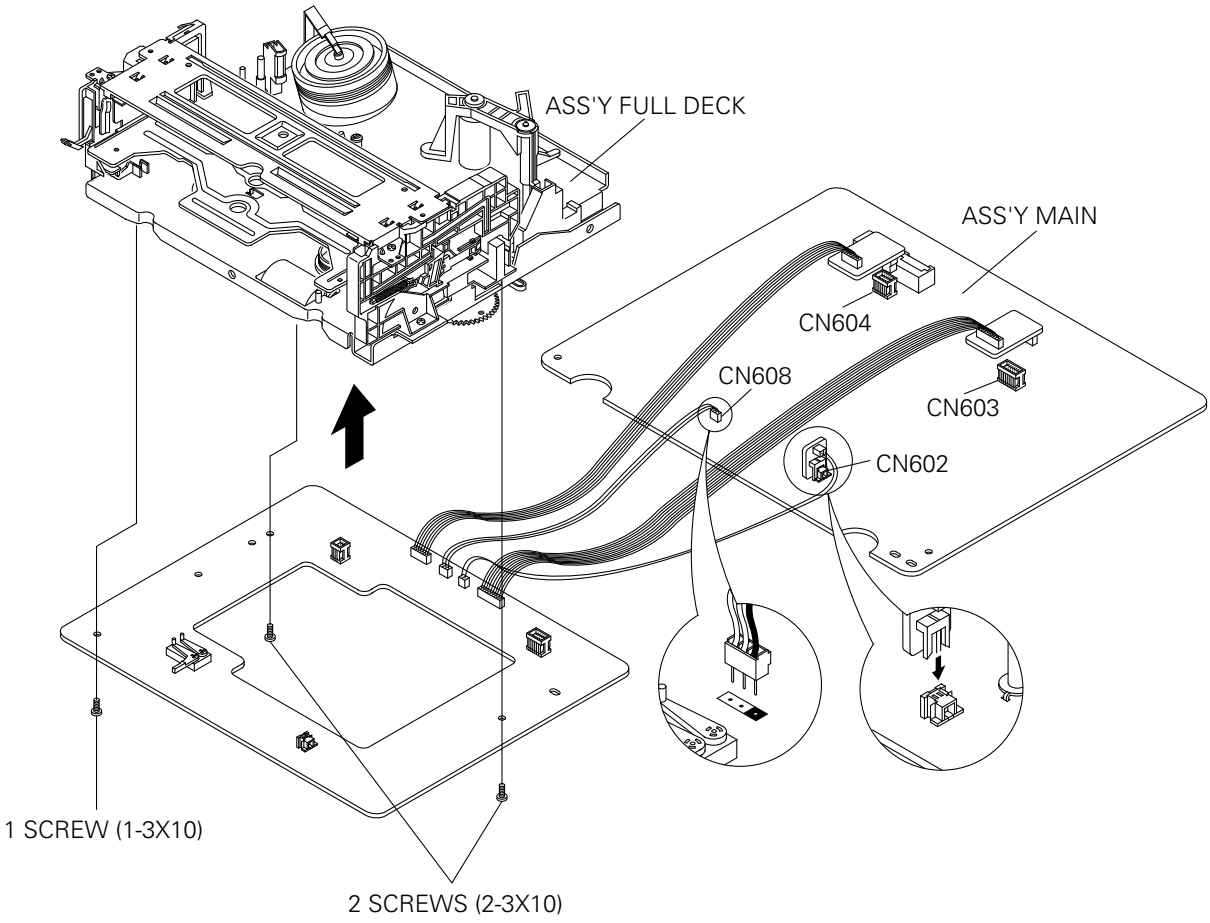
7. Insert a test tape into the housing ass'y.

8. Simultaneously touch the start and end sensor LEDs on the PCB, so that the tape loads automatically. After the tape is loaded, all of the function buttons on the function PCB can be used.

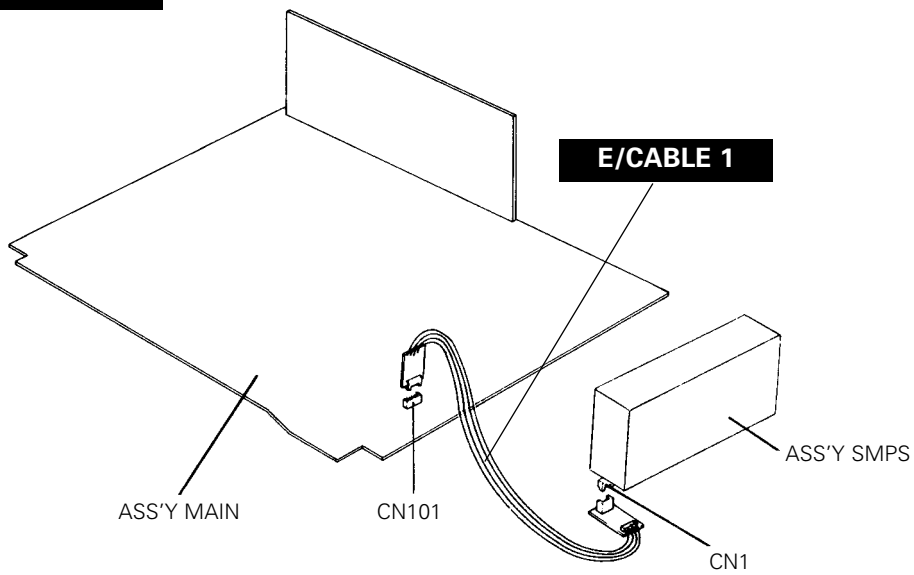
9. If the test tape is ejected while the jig is in use, attempt to re-load the tape by simultaneously touching the start and end sensor LEDs. If the tape still does not load, turn power off in order to reset.

How to Connect X-5 chassis jig

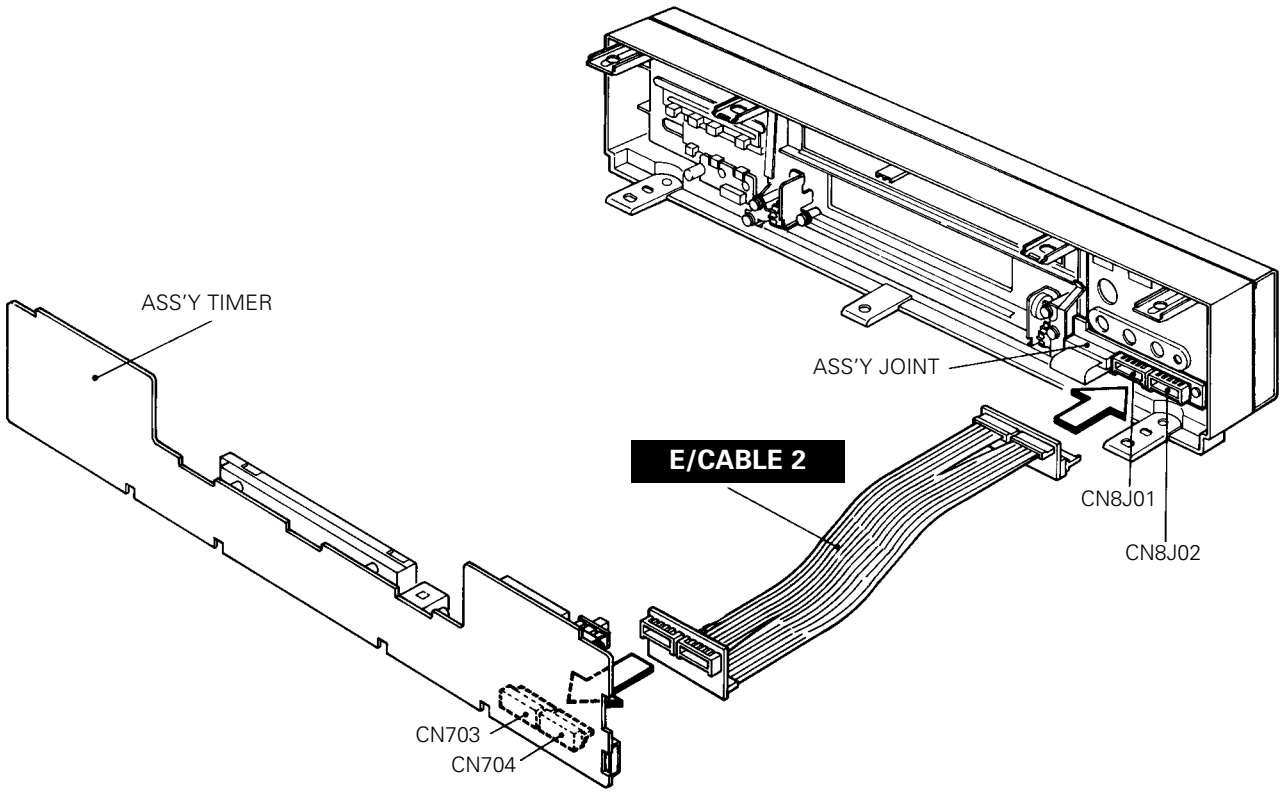

CONNECTS TO THE ASS'Y MAIN CN604.
CONNECTS TO THE ASS'Y MAIN CN608.
CONNECTS TO THE DRUM MOTOR CONNECTOR OF ASS'Y FULL DECK.
CONNECTS TO THE ASS'Y MAIN CN603.
CONNECTS TO THE ASS'Y MAIN CN602.
CONNECTS TO THE CAPSTAN MOTOR CONNECTOR OF ASS'Y FULL DECK.
CONNECTS TO THE LOADING MOTOR CONNECTOR OF ASS'Y FULL DECK.



How to Connect E/Cable 1



How to Connect E/Cable 2



3. Product Specifications

Design and specifications are subject to change without notice.

Operation	Description	
Recording system	Rotary head azimuth recording, luminance signal FM recording system	
	Crominance signal down converted phase shift recording system (NTSC, PAL, PAL-M)	
	Chrominance signal down converted direct recording system (MESECAM)	
	Chrominance signal 1/4 frequency countdown direct recording system (SECAM)	
Color system	NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, SECAM	
Tuning system	B/G, D/K, I, M, N	
RF out	Splitter type (without RF converter)	
Tape recording/playback	NTSC, PAL, PAL-M, SECAM, MESECAM	
Tape speed	NTSC PAL-M	33.35mm/sec (standard recording)
		16.375mm/sec (when playing the double speed recording tape)
		11.12mm/sec (three times recording)
	PAL MESECAM SECAM	23.39mm/sec (standard recording)
		11.69mm/sec (double speed recording)
Tape format	VHS tyep video tape, S-VHS type video type (playback only)	
Recording time	Maximum 8 hours (with a T-160 tape)	
Rewinding time	within 3 minutes (High speed rewinding, T-120 or E-180 tpae)	
Video input	1.0Vp-p (Unbalanced) 75 Ω	
Video output	1.0Vp-p (Unbalanced) 75 Ω	
Video S/N	Above 43dB (standard recording)	
Resolution	Above 220 (standard recording NTSC), 240 (standard recording PAL)	
Audio input	-8dBm	
Audio output	-6dBm (Hi-Fi), -7dBm (Mono)	
Audio S/N	Above 39dB (Mono), 68dB (Hi-Fi)	
Audio frequency	20Hz-20KHz (Hi-Fi standard recording)	
characteristics	100Hz-10KHz (standard recording NTSC) 100Hz-8KHz (standard recording PAL), 100Hz-8KHz (SLP, LP)	
Rated voltage	100V~240V AC	
Rated frequency	50/60Hz	
Power consumption	ARP. 26watts on recording; 8 watts off	
Working ambient temperature	41°F-104°F (5°C-40°C)	
Installation conditions	Operation position : Horizontal, Relative humidity : Below 80%	
Outside dimensions	Width 17.8 inches X Length 13.0 inches X Height 3.4 inches	
Weight	13.2 lbs	

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4. Disassembly and Reassembly

4-1 Cabinet Assembly

Note : Disassemble in the order shown.
Reassemble in reverse order.

4-1-1 Panel-Side L/R and Cabinet Top removal

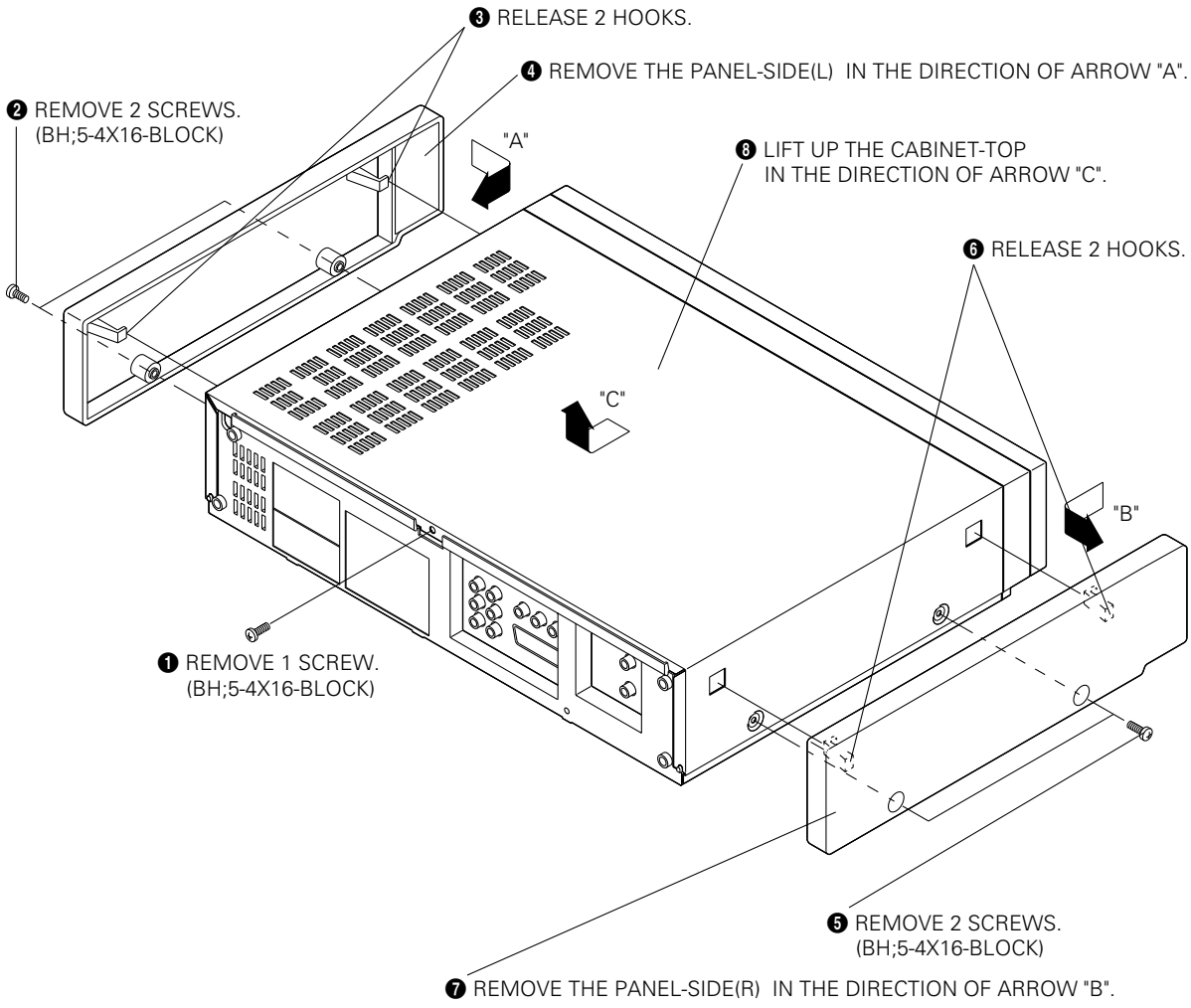


Fig. 4-1 Cabinet Top removal

4-1-2 Bottom cover removal

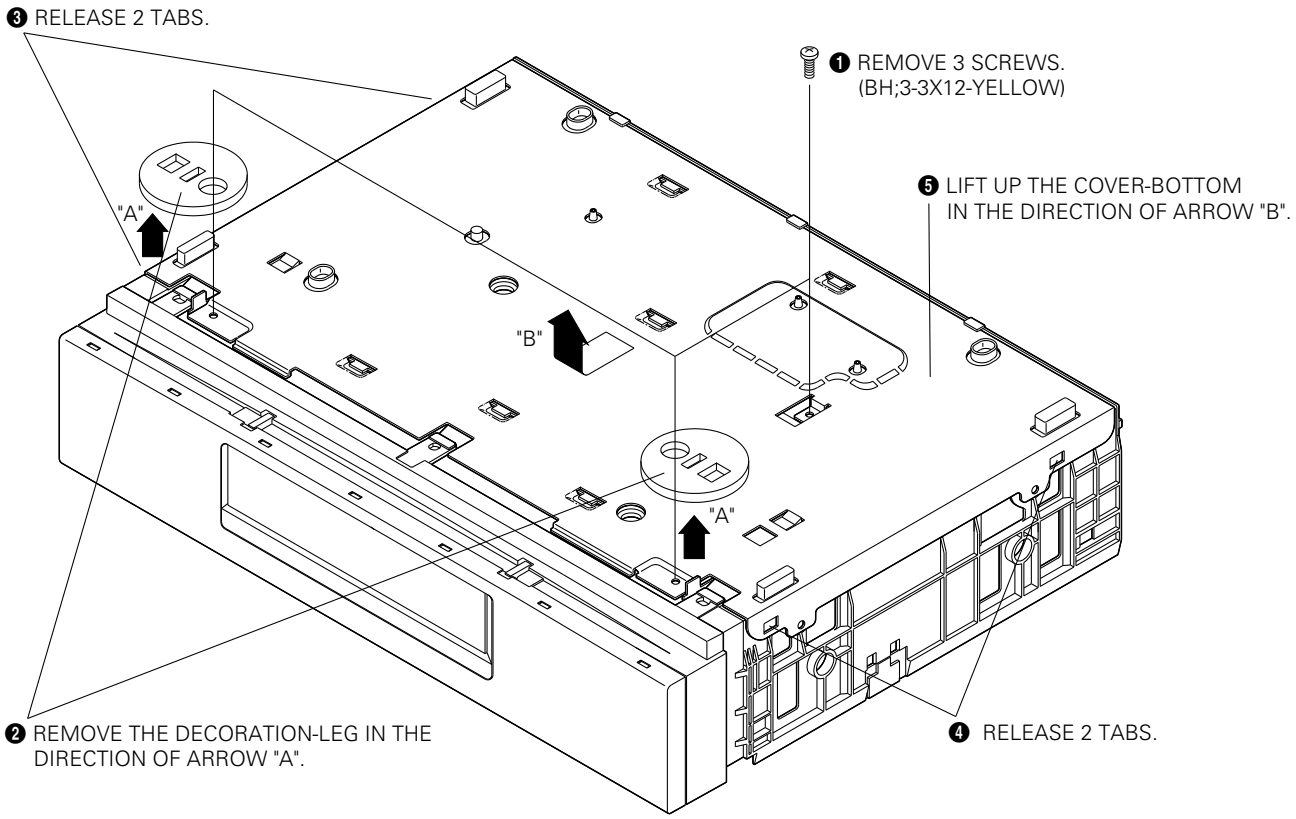
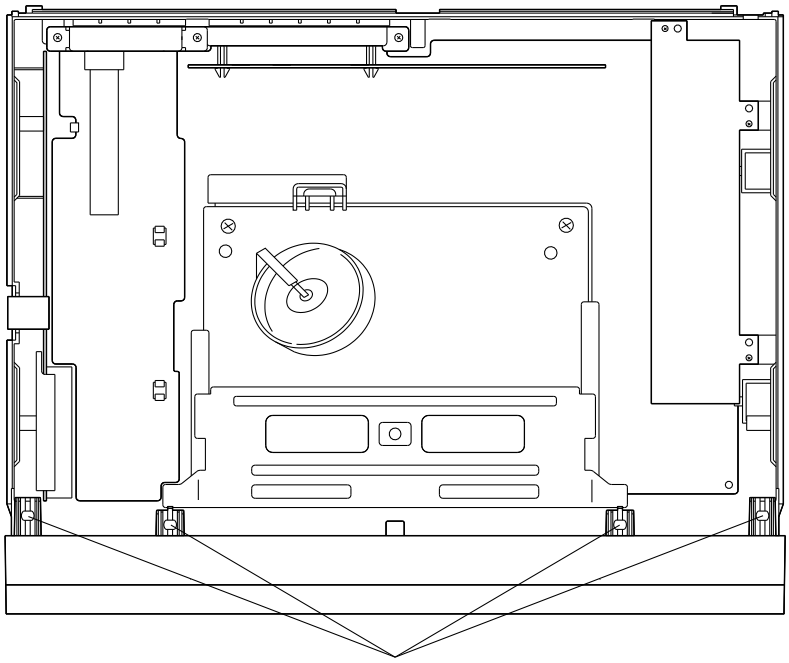
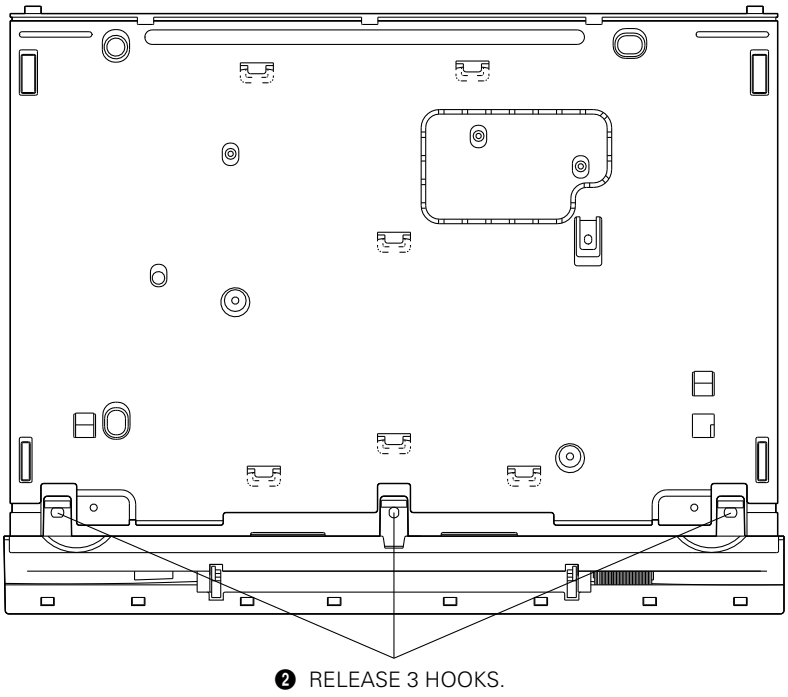


Fig. 4-2 Bottom Cover removal

4-1-3 Ass'y Front Panel removal



(Top view)



(Bottom view)

Fig. 4-3 Ass'y Front Panel removal

4-1-4 Ass'y Function removal

Note : Take extreme care not to damage the PCB when removing it.

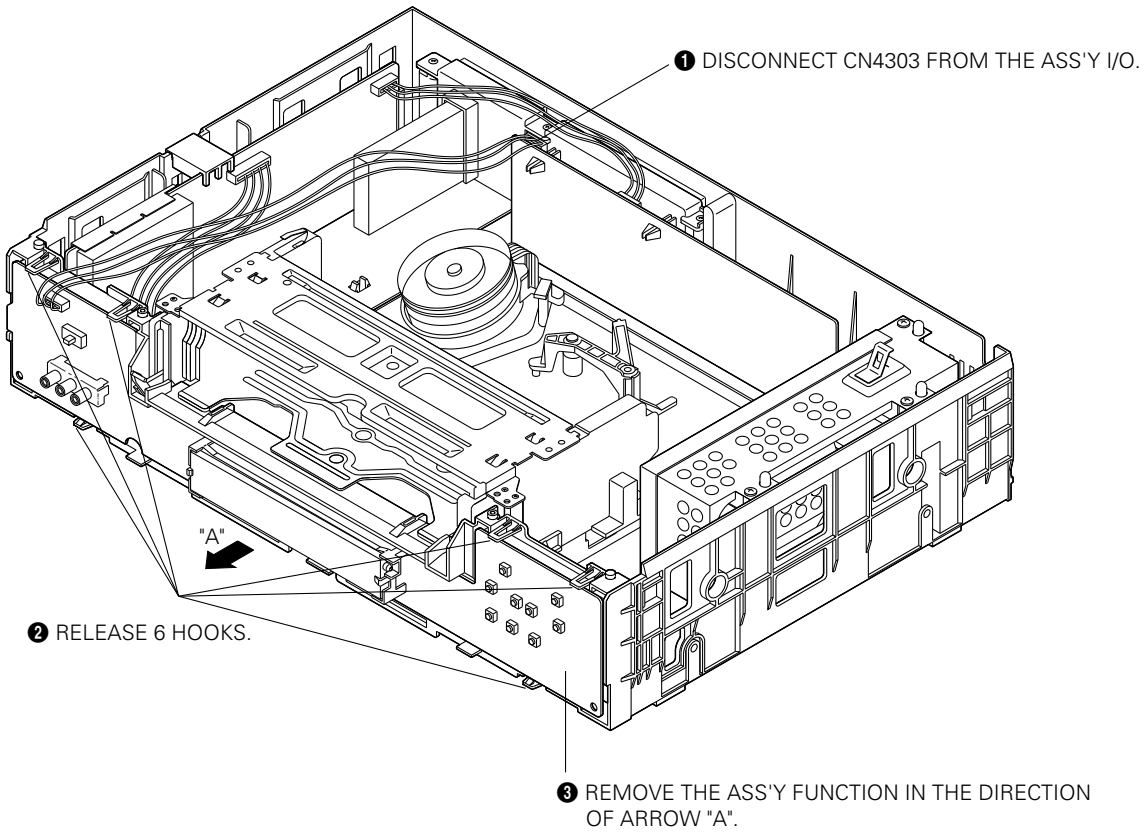


Fig. 4-4 Ass'y Function-Timer removal

4-1-5 Ass'y Full Deck removal

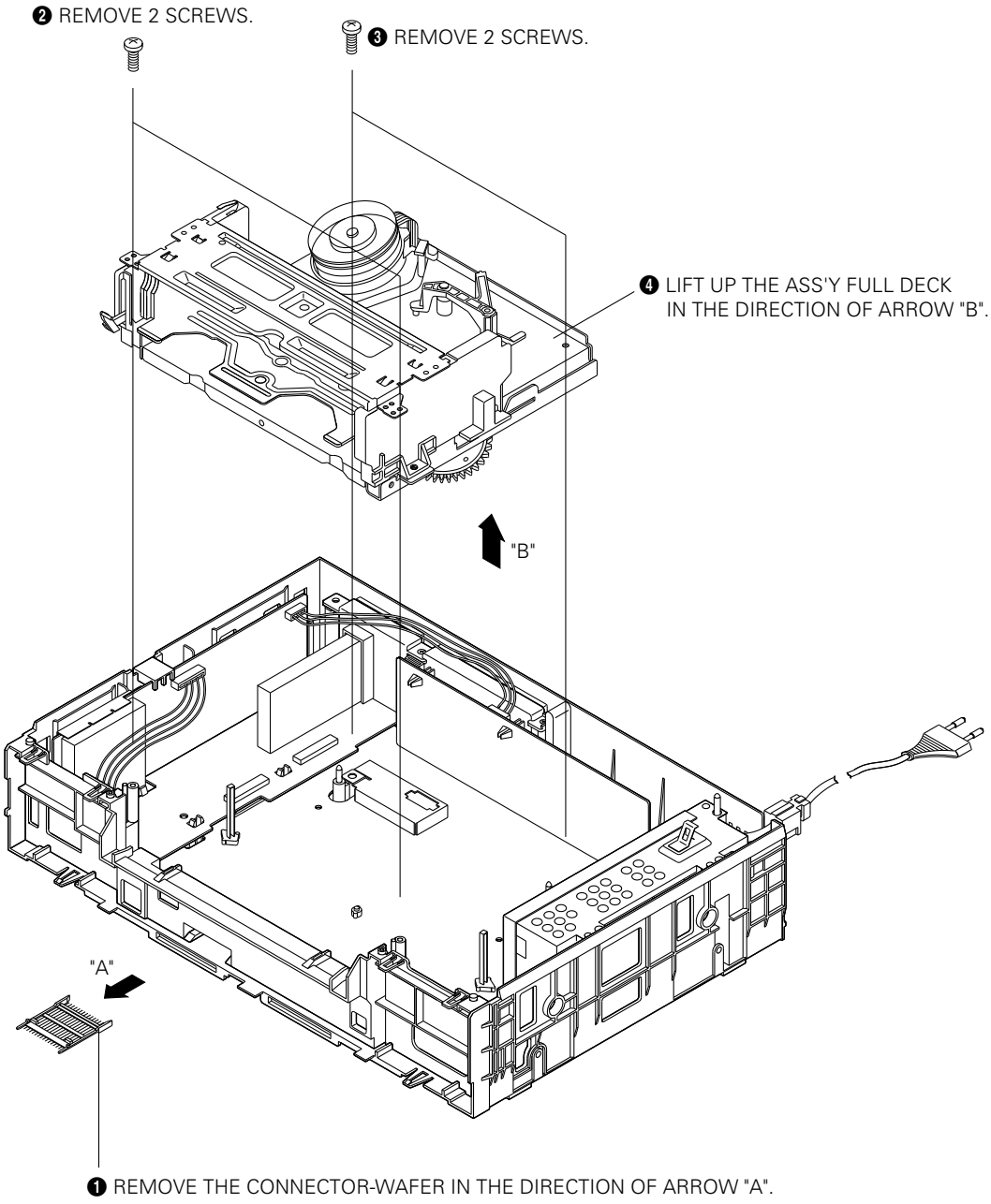

❷ REMOVE 2 SCREWS.
❸ REMOVE 2 SCREWS.
❹ LIFT UP THE ASS'Y FULL DECK
IN THE DIRECTION OF ARROW "B".
"B"
"A"
❶ REMOVE THE CONNECTOR-WAFER IN THE DIRECTION OF ARROW "A".

Fig. 4-5 Ass'y Full Deck removal

4-1-6 Ass'y SMPS removal

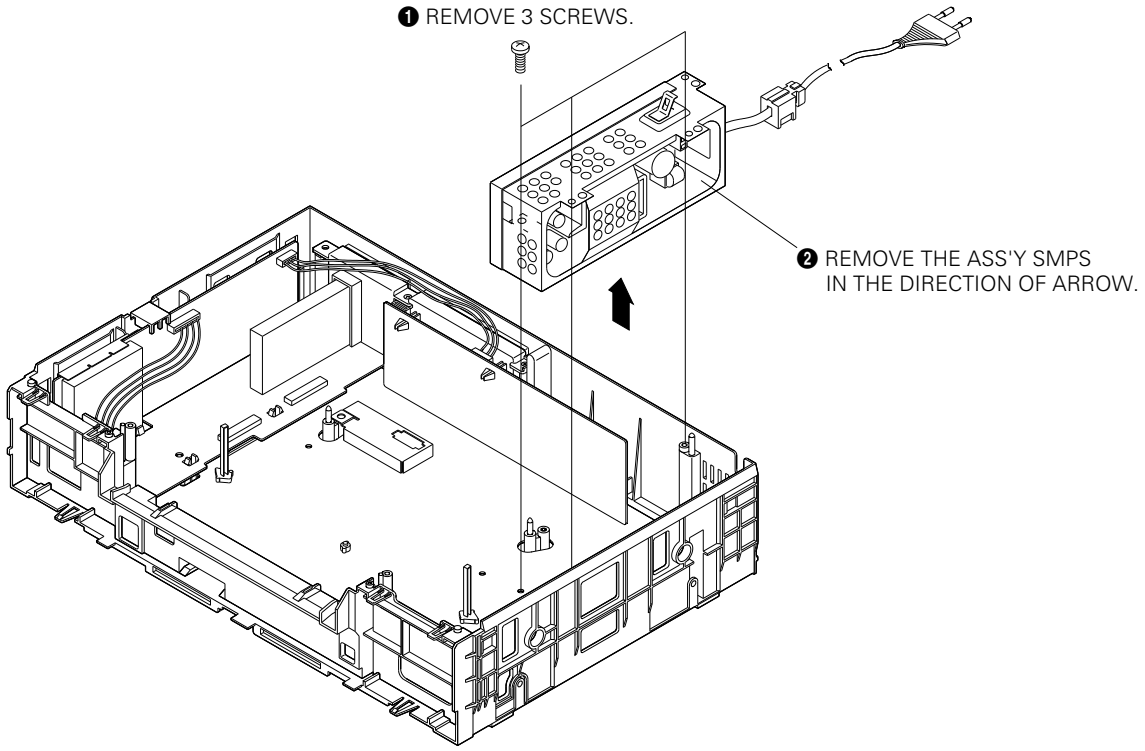


Fig. 4-6 Ass'y SMPS removal

4-1-7 Ass'y Digital removal

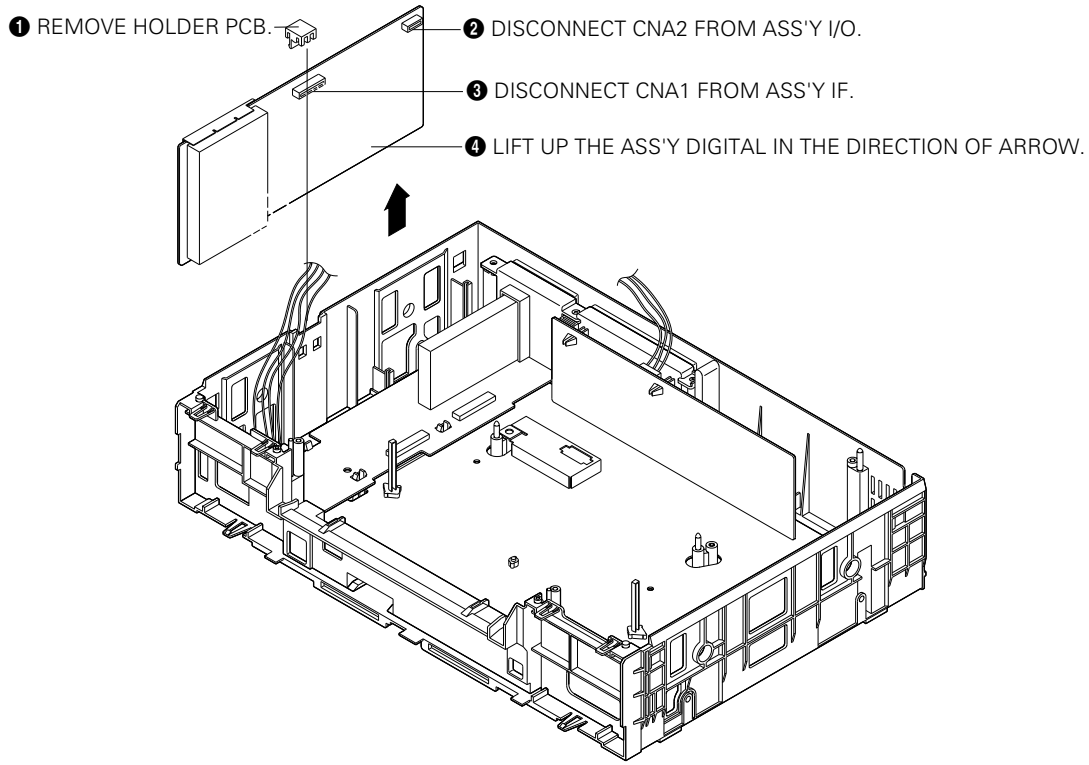

❶ REMOVE HOLDER PCB.
❷ DISCONNECT CNA2 FROM ASS'Y I/O.
❸ DISCONNECT CNA1 FROM ASS'Y IF.
❹ LIFT UP THE ASS'Y DIGITAL IN THE DIRECTION OF ARROW.

Fig. 4-7 Ass'y Digital removal

4-1-8 Ass'y IF removal

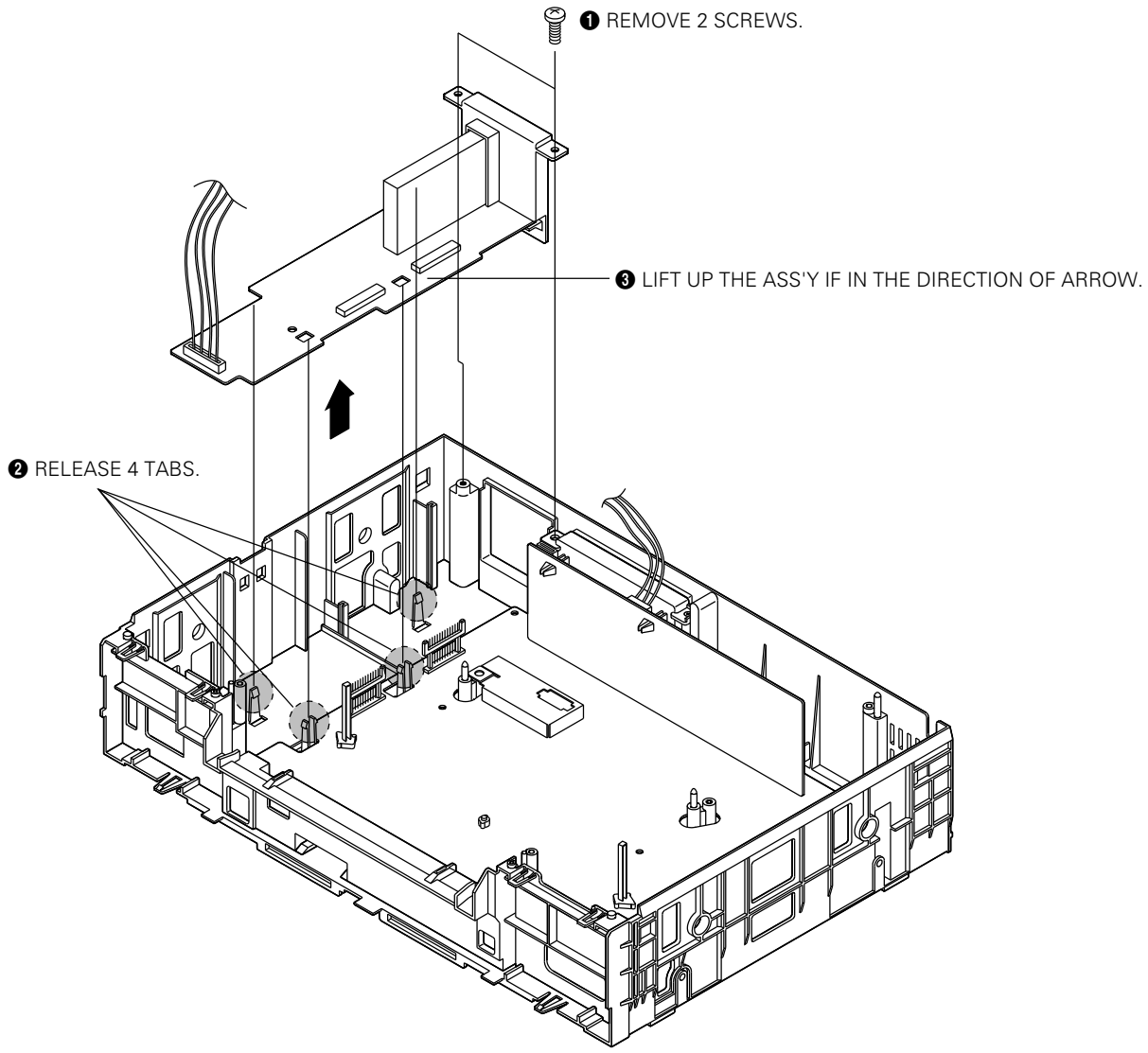


Fig. 4-8 Ass'y IF removal

4-1-9 Ass'y Main removal

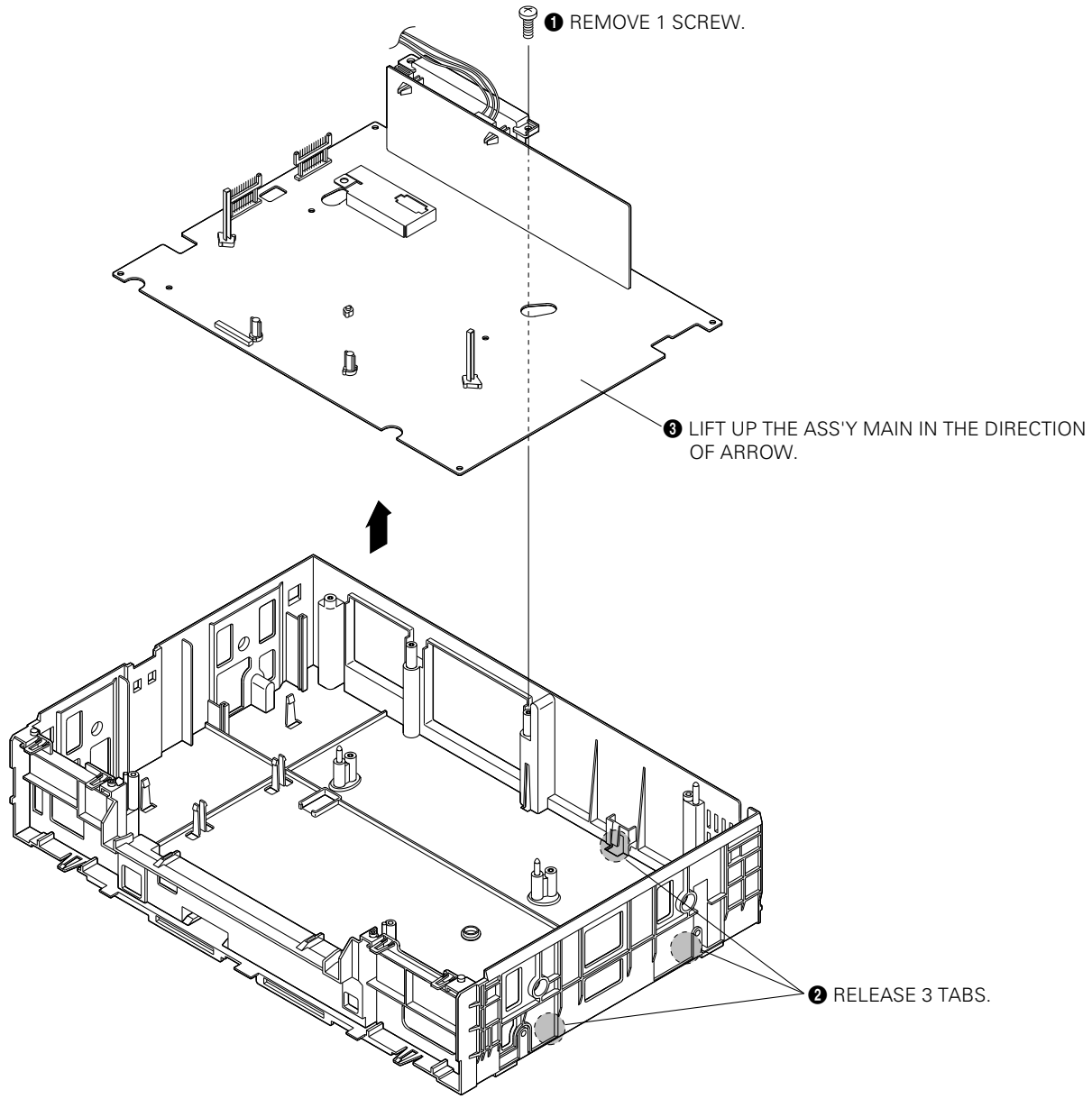


Fig. 4-9 Ass'y Main removal

4-2 Circuit Board Locations

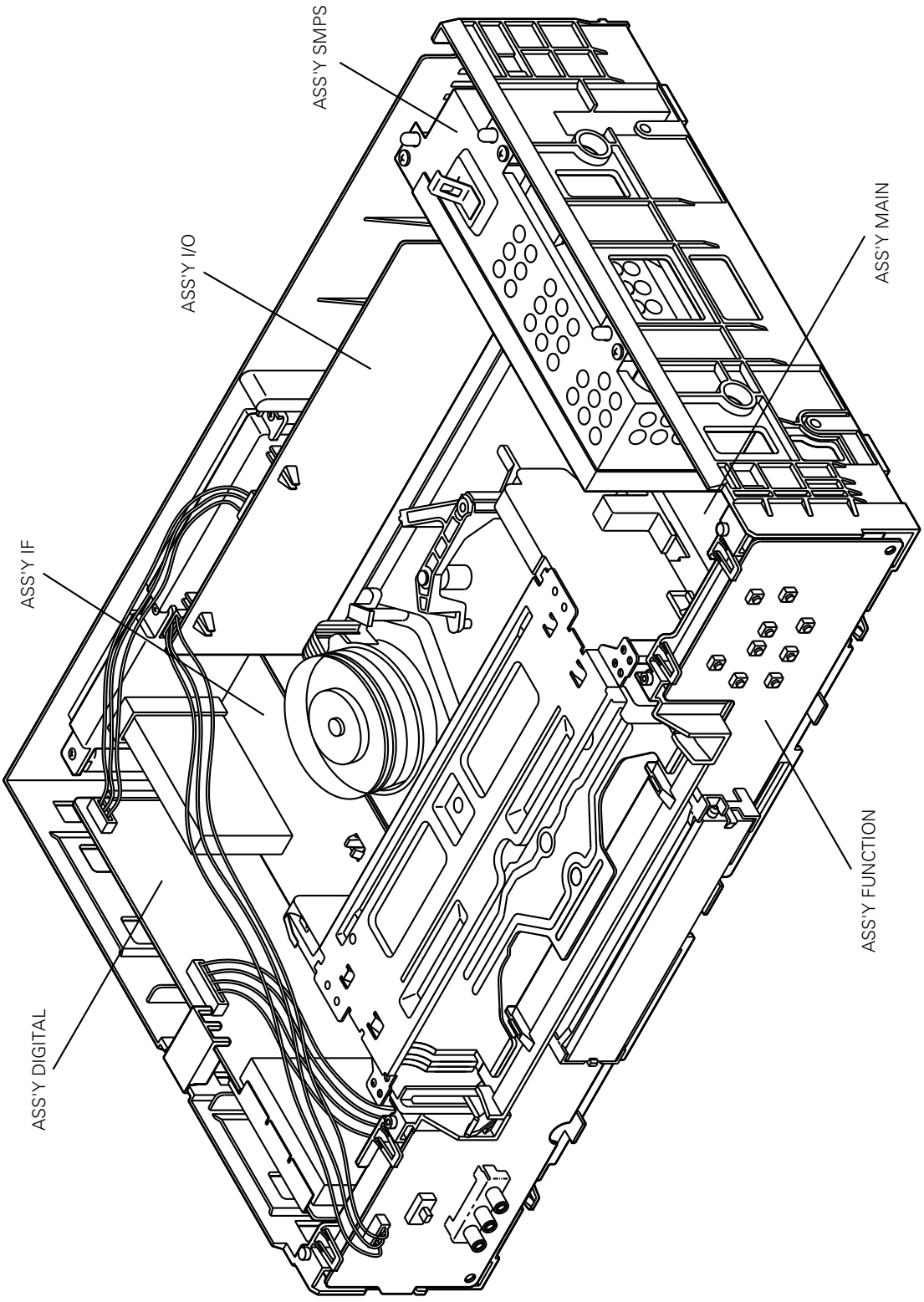


Fig. 4-10 Circuit Board Locations

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6. Alignment and Adjustment

Note : After replacing the ass'y full deck, the ass'y main, the cylinder ass'y and the micom(IC601), the remote control ass'y can be used to adjust the "X-point (tracking center) adjustment" and "Head S/W point" adjustment.

6-1 Reference

6-1-1 The type of remote control ass'y

The remote control ass'y of SV-4000W unit.

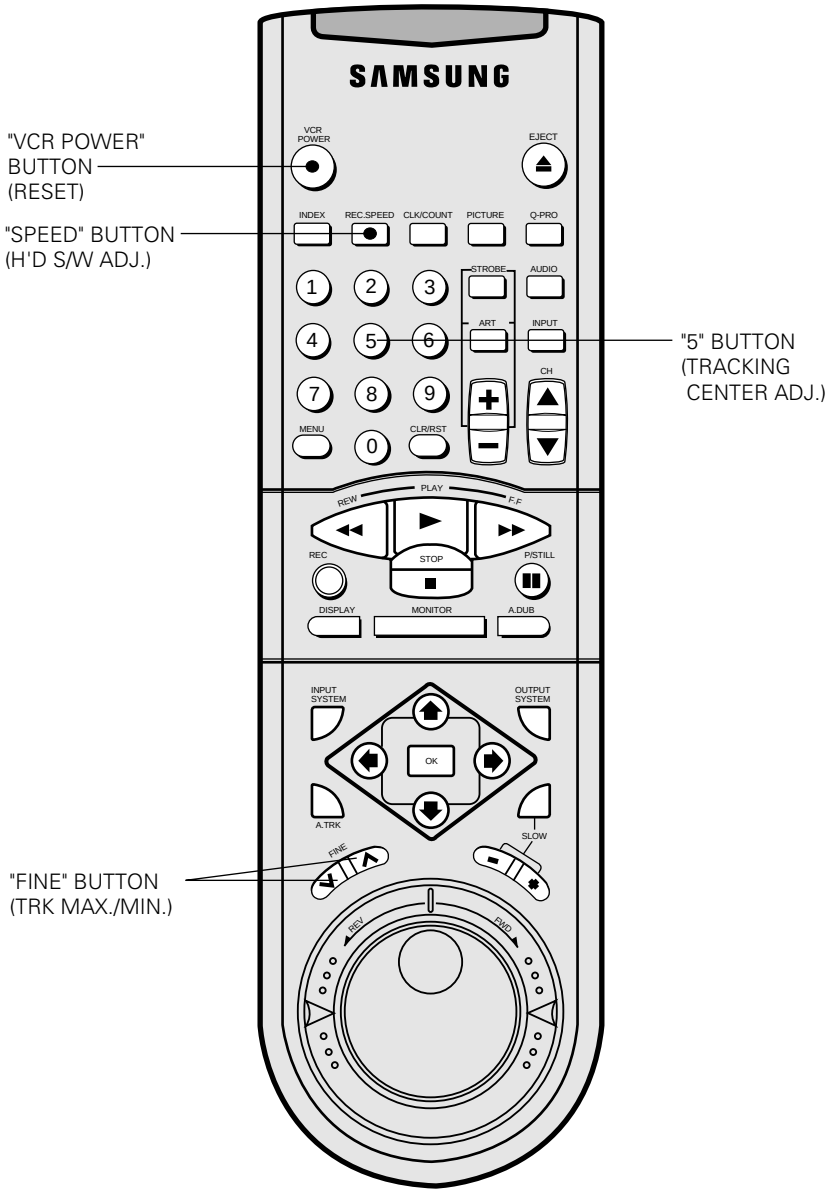


Fig. 6-1 Remote control ass'y of SV-4000W unit

6-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual "DX7-R/DX7-RC/DX8-R/DX8-RC (AC68-20316A)" for the adjustment and confirmation of ass'y full deck.

6-2-1 The number and position of test point

Test point : TP02 (CTL Pulse)
TP01 (H'D S/W -Trigger)
TP03 (V. Envelope)

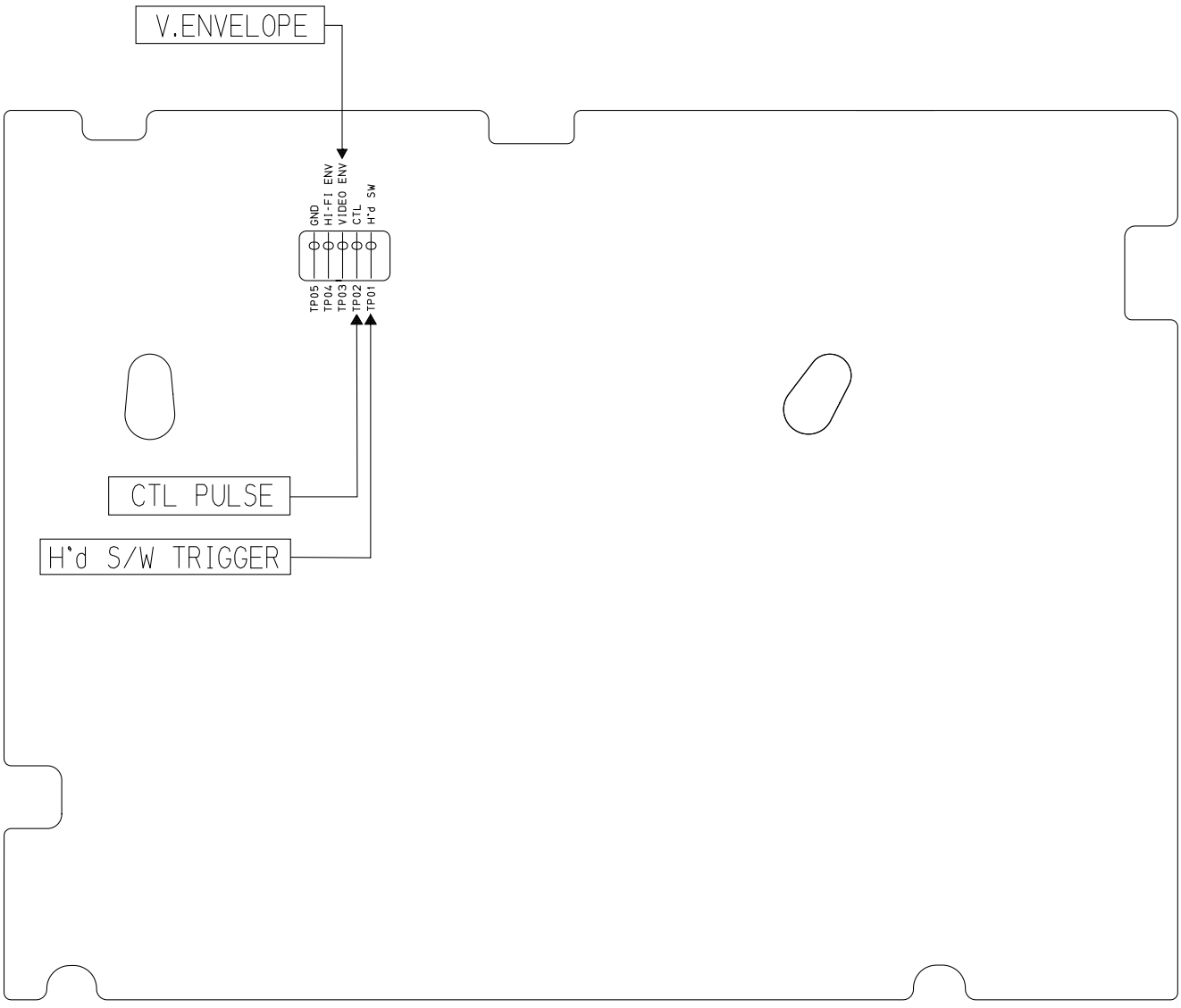


Fig. 6-2 The position of test point (Main PCB-Component side)

6-2-2 X-Point(Tracking center) adjustment (See the 2-2-1 (d) AC HEAD POSITION(X-POINT) ADJUSTMENT on page 2-3 of the mechanical manual)

6-2-2 (a) IF THE REMOTE CONTROL ASS'Y IS NOT AVAILABLE

1. Playback the color bar alignment tape.
2. Connect CH-1 scope probe to "TP02" and CH-2 scope probe to "TP01". And then, trigger head switching pulse.
3. Set tracking preset to 11msec (2head : 2.7msec, 4, 6head : 11msec) using the "**FINE(Tracking, TRK)**" button ▲ / ▼ of the other remote control ass'y except the remote control ass'y jig for X-5/X-6 chassis and the normal remote control ass'y for X-7/X-8 chassis.
4. Connect CH-1 scope probe to "TP02" and the CH-2 to "TP01" trigger on CH-1.
5. Insert the adjusting driver (+) into X-position adjusting gear. Adjust the driver in either direction for maximum envelope waveform.

Note : Since the adjusting gear unit may be damaged, do not adjust by force when adjusting the X-point using the adjusting driver (+). After turn the X-point adjusting screw (D) counterclockwise a little, perform the adjustment. After adjustment is completed, tighten the screw.

<Setting of scope>
- Volt/div. : CH-1 = 0.1V
  CH-2 = 0.2V
- Time/div. : 5msec

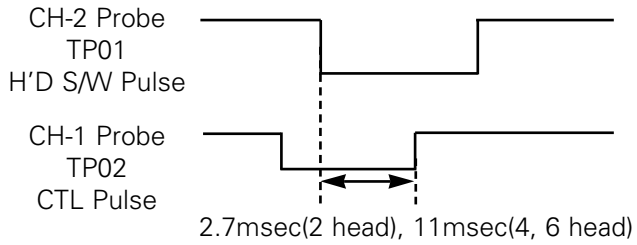


Fig. 6-3 Tracking preset adjustment

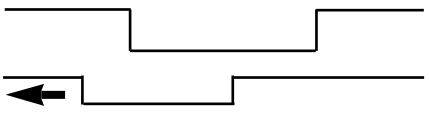
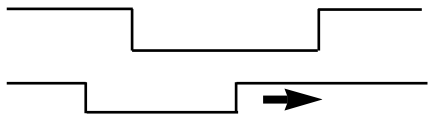
REMOTE BUTTONS	CONTROL PULSE REMOVE
PUSH ▲ TRACKING ▼	
▲ TRACKING ▼ PUSH	

Fig. 6-4 Tracking preset adjustment

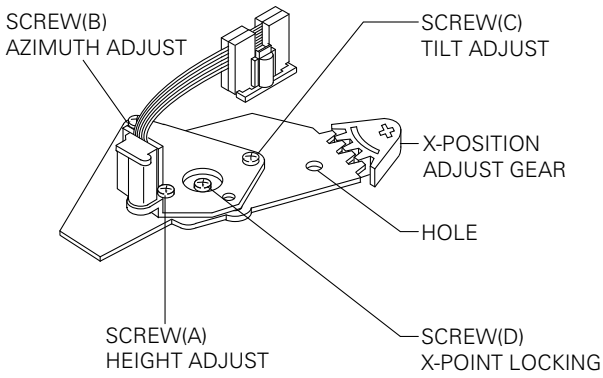


Fig. 6-5 Location of A/C Head adjustment screw

6-2-2 (b) IF THE REMOTE CONTROL ASS'Y (SV-4000W UNIT) IS AVAILABLE

1. Connect a jumper or solder land (2 point) at service option (W750) on the timer PCB.
2. Press the No. 5 (Tracking center) button within 6 seconds of remote control ass'y.
3. Adjust it with FINE ∧(Tracking max.)/∨(Tracking min.) button of remote control ass'y.
4. After completing repairs, turn power off in order to reset.

6-3 Electrical Adjustment

6-3-1 Servo Adjustment

1. Head S/W

Note : Only remote control ass'y can adjust.

1) Connect a jumper or solder land (2 point) at service option (W750) on the timer PCB.
2) Press the speed button within 6 seconds Head S/W adjustment is operated automatically.
3) After completing repairs, turn power off in order to reset.

6-3-2 RF Adjustment

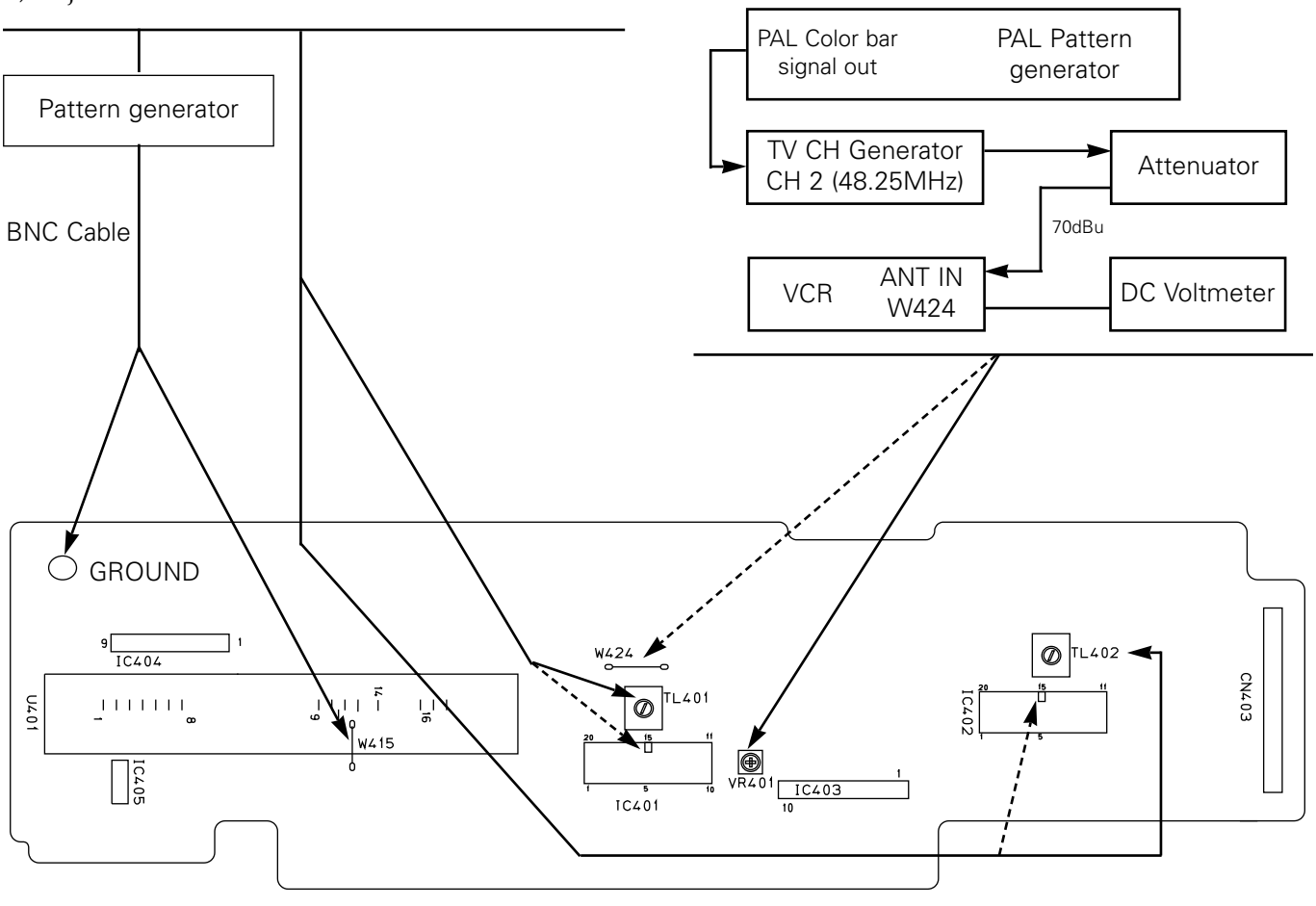
1. AFT

1) Apply 38.9MHz (90dbu) to W415 connected TM Block (U401) pin 12 with pattern generator.
2) Connect voltmeter to the pin 15 of IC401.
3) Adjust TL401 for DC2.6 ± 0.1V.
4) Connect voltmeter to the pin 15 of IC402
5) Adjust TL402 for DC2.6 ± 0.1V.

2. AGC

1) Receive CH2 (48.25MHz, 70dBu:B/G) with TV CH generator at E-E mode.
2) Connect DC voltmeter to W424
3) Adjust VR401 for DC4.3 ± 0.2V.

*** Composition for RF AGC adjustment**

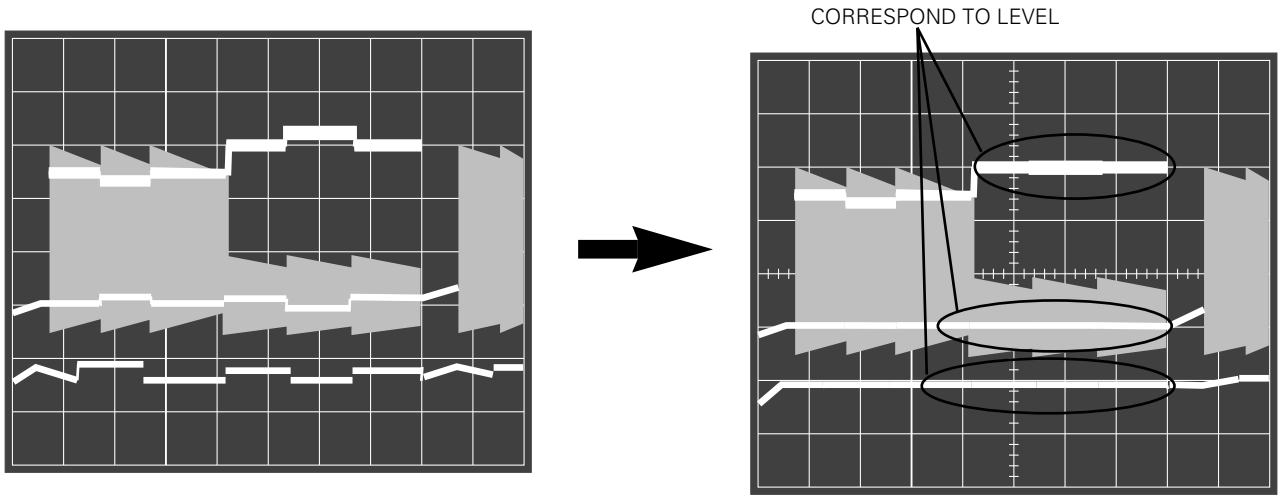


IF PCB (Component side)

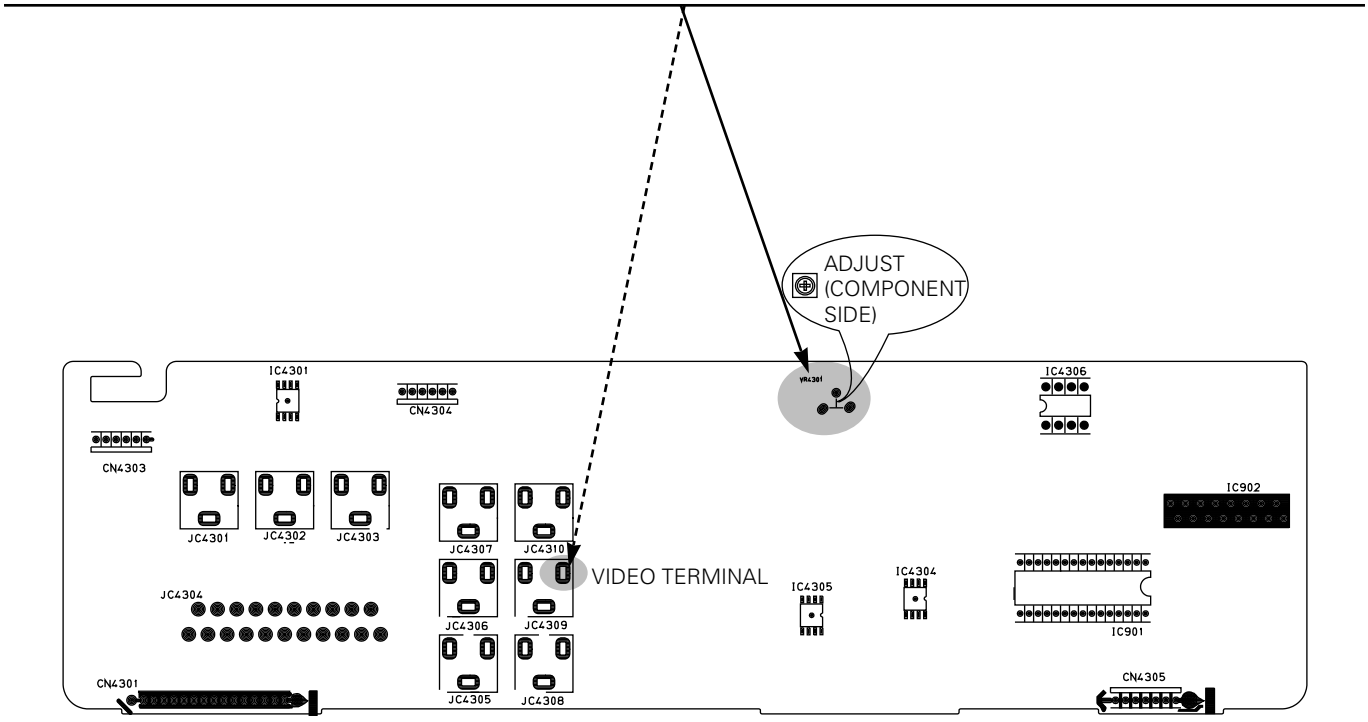
6-3-3 Video Adjustment

1. NTSC Skew

1) Load the instrument with an alignment tape and playback the color bar signal(NTSC SP color bar tape).
2) Connect channel-1 scope probe (1V/div, 50μs/div.).
3) Connect channel-2 scope probe to video terminal of JC4309 (I/O PCB).
4) Set the VCR to RPS (Reverse picture search) or FPS (Forward picture search) mode.
5) Adjust VR4301 (I/O PCB) so that the 100% white and pedestal is as flat as possible.



(Before Adjustment) (After Adjustment)



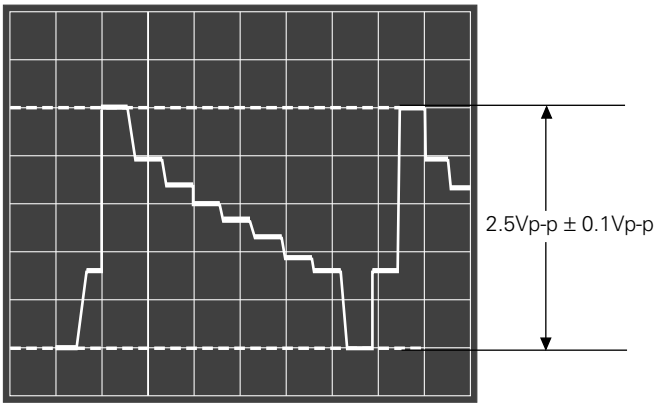
Main PCB (Conductor Side)

6-3-4 Digital Adjustment

Note : 1. Be sure to adjust in due order.
2. The output mode selection key is on the Ass'y Front Panel.
3. See page 6-9 for the location of test points and adjustments.

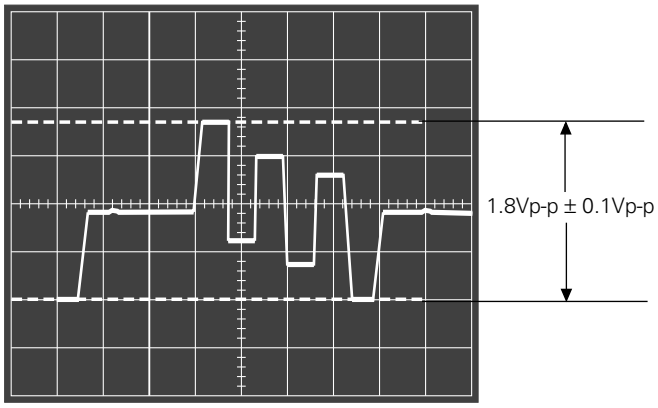
1. W-Y

1) Apply PAL color bar signal to the video jack on the rear panel.
2) Select output mode selection key to "THROUGH".
3) Connect channel-1 oscilloscope probe to TPA9.
4) Adjust VRA3 for 2.5Vp-p ± 0.1Vp-p.



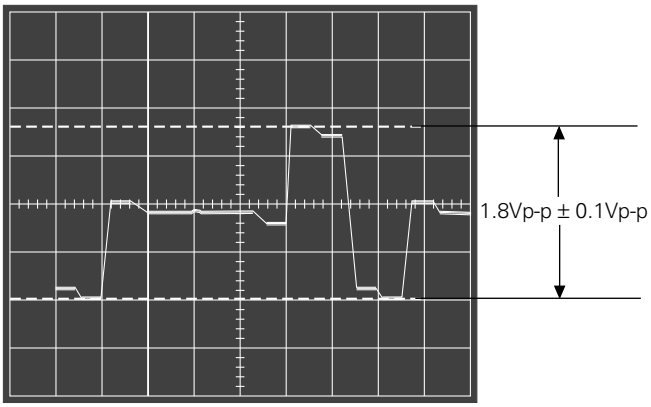
2. W-(B-Y)

1) Apply PAL color bar signal to the video jack on the rear panel.
2) Select output mode selection key to "THROUGH".
3) Connect channel-1 oscilloscope probe to TPA10.
4) Adjust VRA4 for 1.8Vp-p ± 0.1Vp-p.



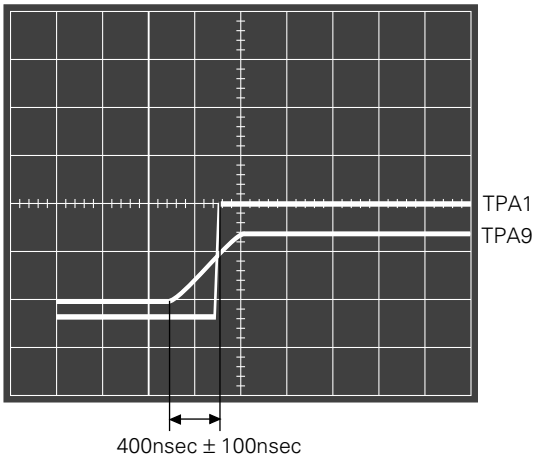
3. W-(B-Y)

1) Apply PAL color bar signal to the video jack on the rear panel.
2) Select output mode selection key to "THROUGH".
3) Connect channel-1 oscilloscope probe to TPA11.
4) Adjust VRA5 for 1.8Vp-p ± 0.1Vp-p.



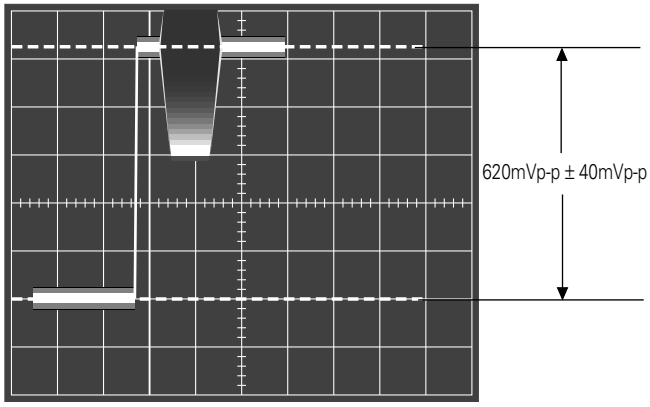
4. WR-SYNC

1) Apply PAL color bar signal to the video jack on the rear panel.
2) Select output mode selection key to “THROUGH”.
3) Connect channel-1 oscilloscope probe to TPA9 (50mV, 200nsec).
   Connect channel-2 oscilloscope probe to TPA1 (200mV, 200nsec).
4) Adjust VRA8 for 400nsec ± 100nsec.



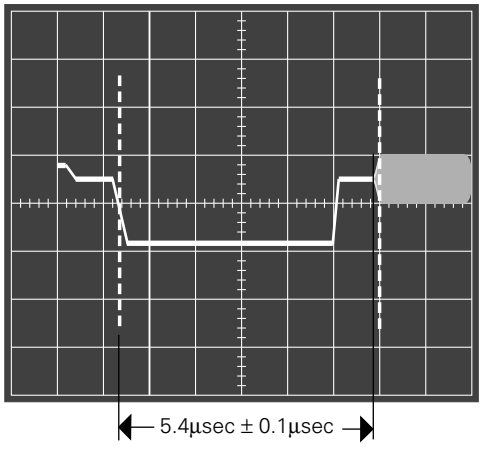
5. SYNC Suppress

1) Apply NTSC color bar signal to the video jack on the rear panel.
2) Select output mode selection key to “PAL”.
3) Connect channel-1 oscilloscope probe to TPA12.
4) Adjust VRA1 for 620mVp-p ± 40mVp-p.



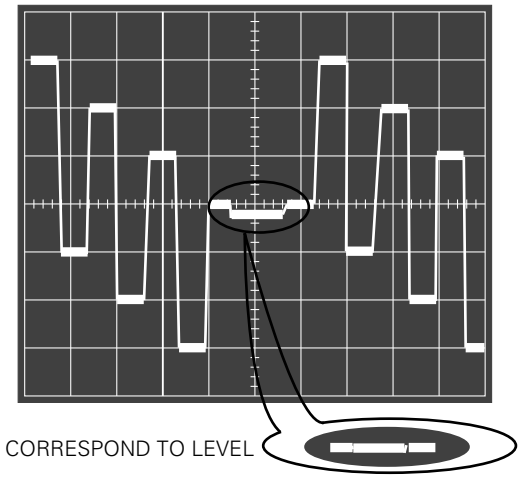
6. Burst Phase

1) Apply NTSC color bar signal to the video jack on the rear panel.
2) Select output mode selection key to “PAL”.
3) Connect channel-1 oscilloscope probe to TPA12.
4) Adjust VRA2 for 5.4μsec ± 0.1μsec.



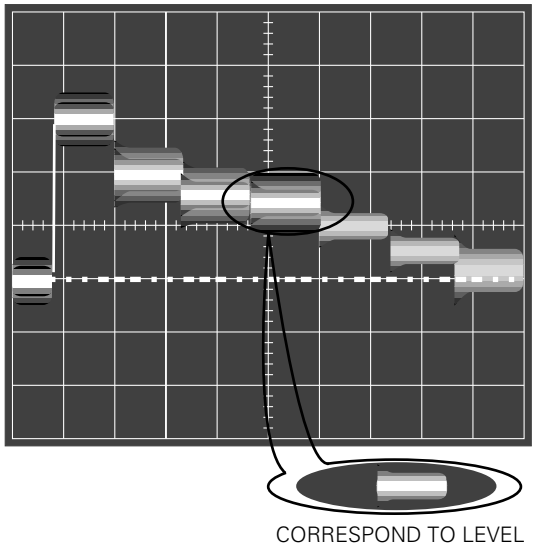
7. Clolor Balance

1) Apply NTSC color bar signal to the video jack on the rear panel.
2) Select output mode selection key to “PAL”.
3) Connect channel-1 oscilloscope probe to TPA15.
4) Adjust VRD1 so that waveforms are aligned as shown below.



8. SECAM Freq.

1) Apply PAL color bar signal to the video jack on the rear panel.
2) Select output mode selection key to “SECAM”.
3) Connect channel-1 oscilloscope probe to TPA12.
4) Adjust VRA6 so that waveforms are aligned as shown below.

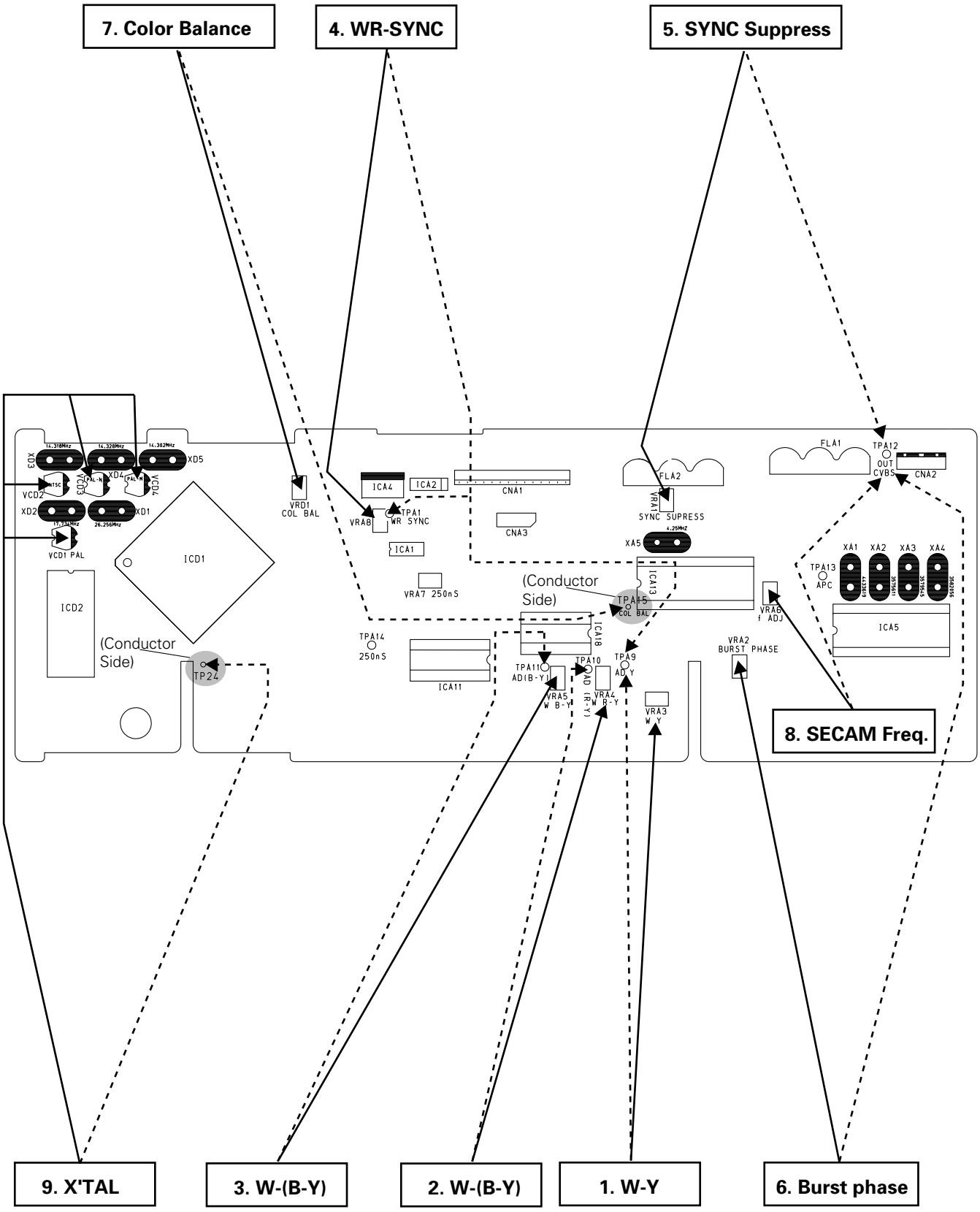


9. X’TAL

1) Apply PAL color bar signal to the video jack on the rear panel.
2) Connect the frequency counter to TP24.
3) Select output mode selection key to “PAL”.
4) Adjust VCD1 for 4.433619MHz ± 25Hz.
5) Select output mode selection key to “NTSC”.
6) Adjust VCD2 for 3.579545MHz ± 25Hz.
7) Select output mode selection key to “PAL-N”.
8) Adjust VCD3 for 3.582056MHz ± 25Hz.
9) Select output mode selection key to “PAL-M”.
10) Adjust VCD4 for 3.575611MHz ± 25Hz.

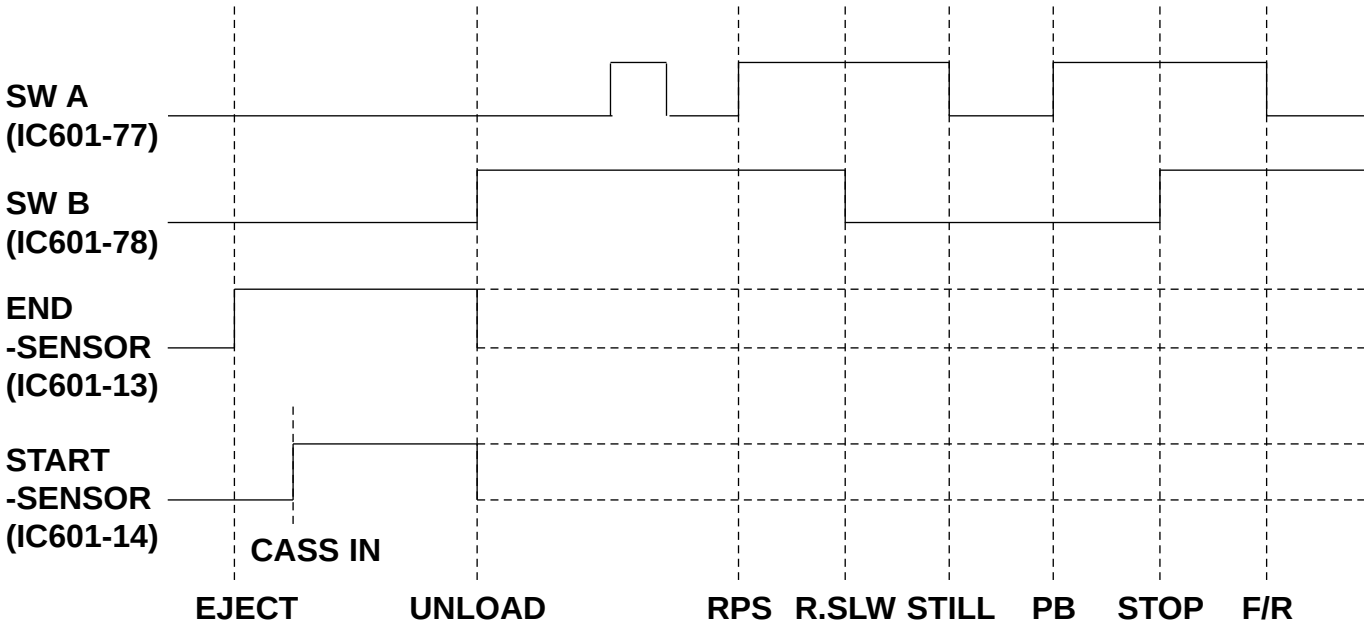
No.	Input	Output	Adjust Point	Specification
1	PAL Color bar	PAL	VCD1	4.433619MHz ± 25Hz
2	PAL Color bar	NTSC	VCD2	3.579545MHz ± 25Hz
3	PAL Color bar	PAL-N	VCD3	3.582056MHz ± 25Hz
4	PAL Color bar	PLA-M	VCD4	3.575611MHz ± 25Hz

◆ Test point and adjustment point



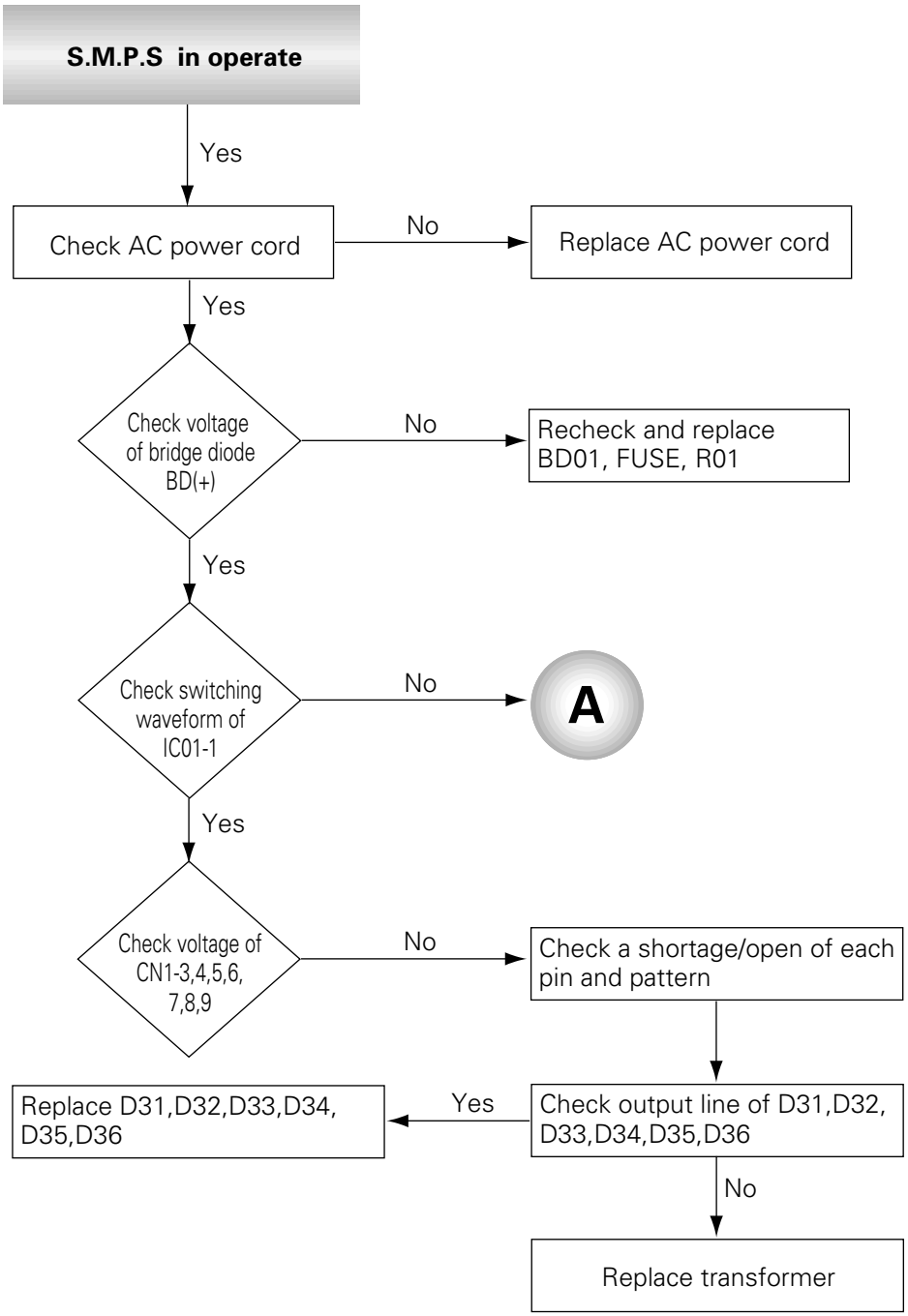
Digital PCB (Component side)

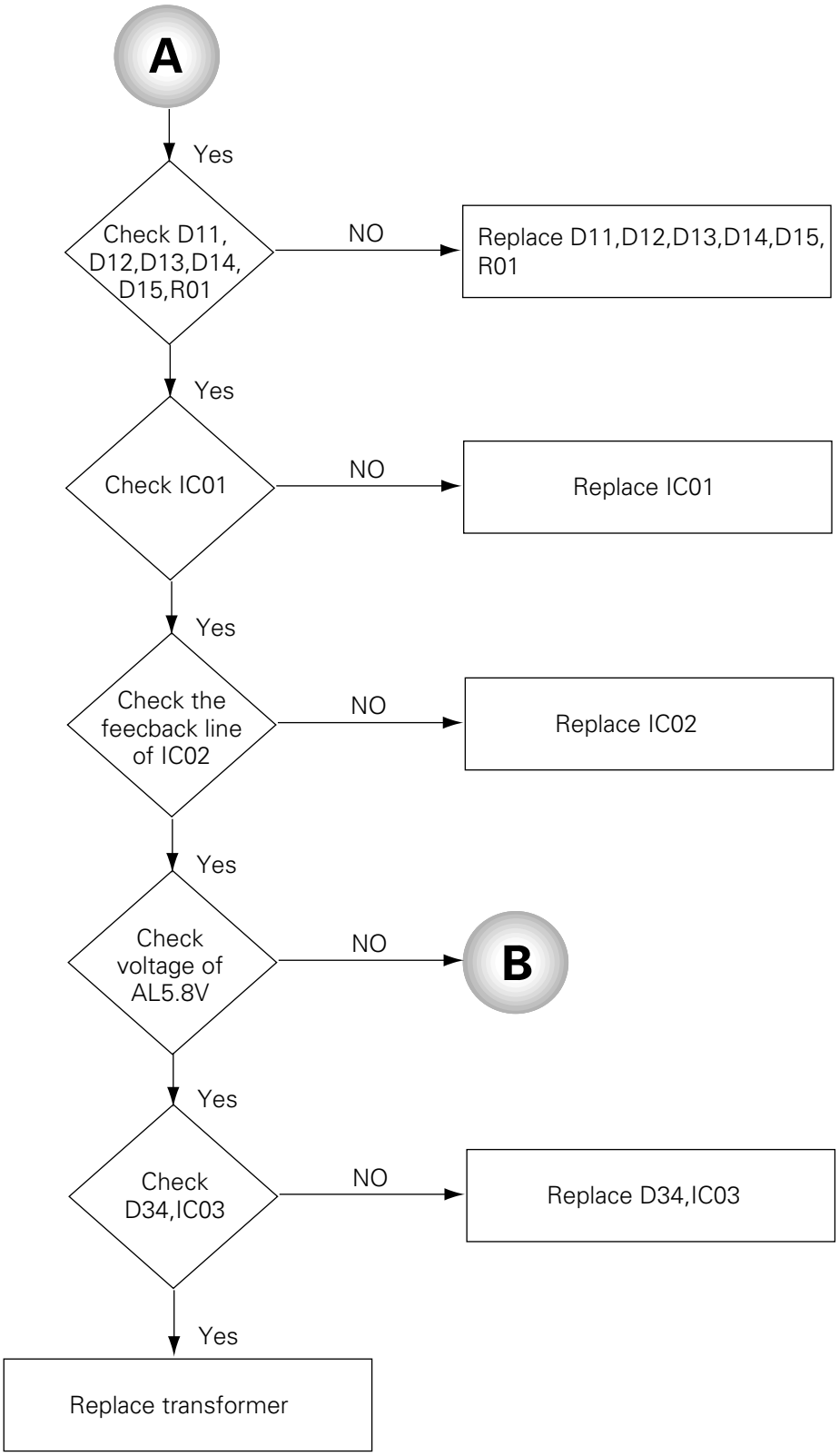
6-4 Timing Chart of Program S/W

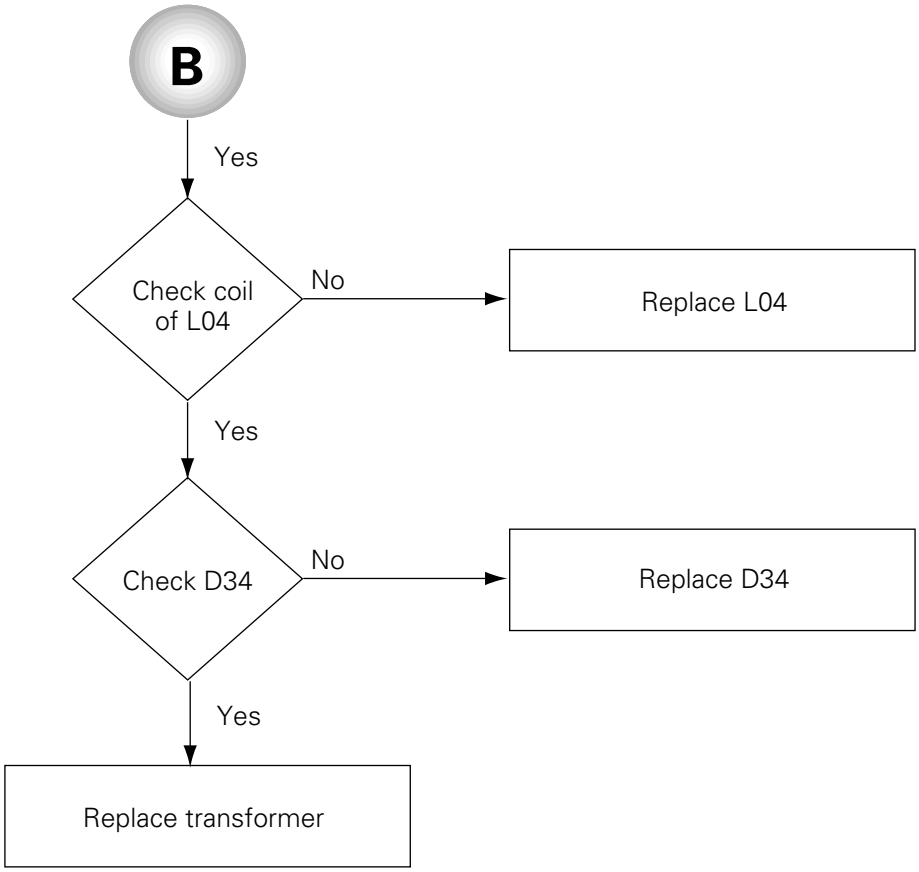


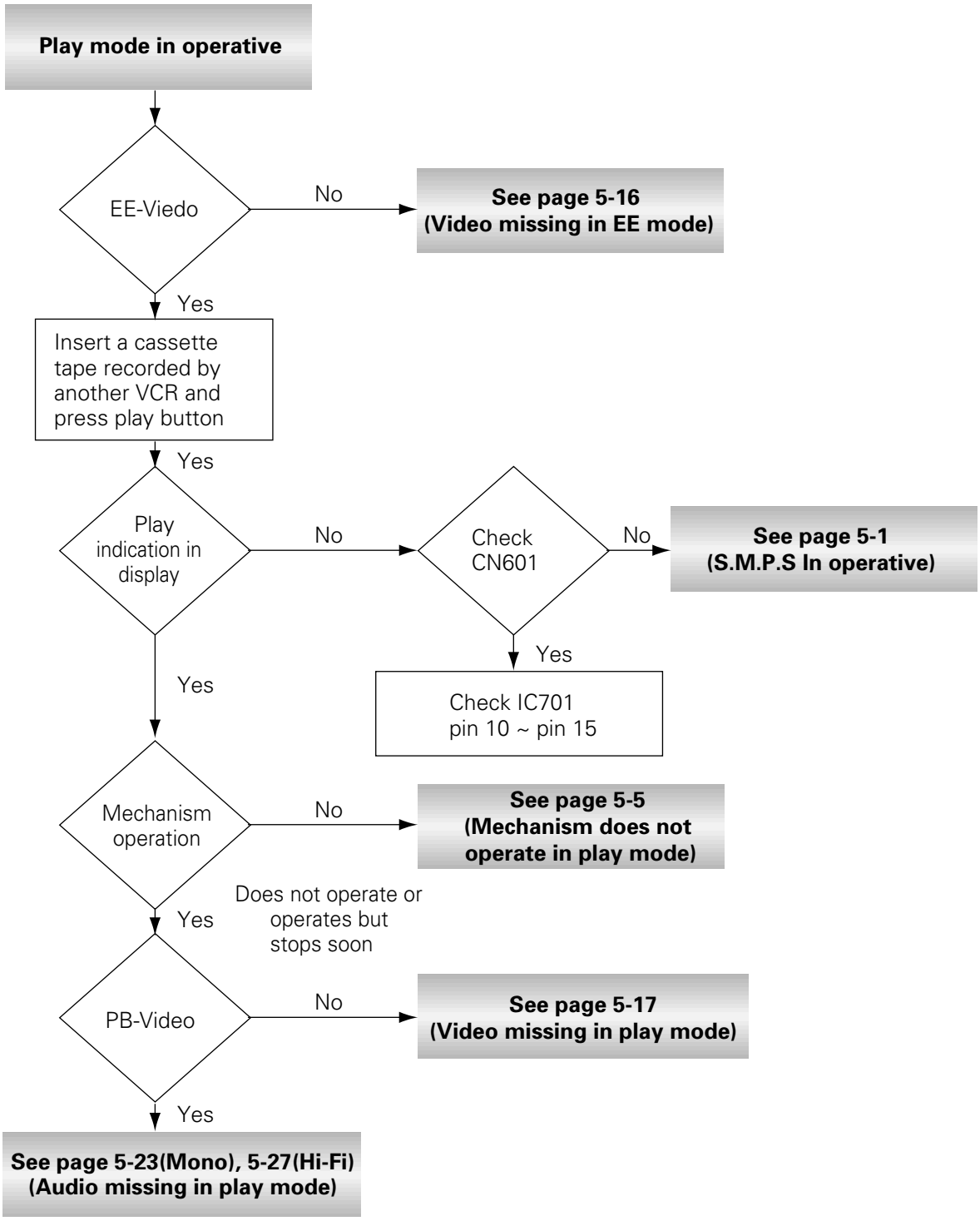
Position	Program S/W (SW601)				Action Mode
	E/S	S/S	SW A	SW B	
Eject	L	L	L	L	Eject
Cassette IN	H	L H	L	L	Cassette IN
Unload	-	-	L	L H	Unload
R. PS	-	-	L H	H	R. PS, Z-R. PS
R. Slow	-	-	H	H L	Pinch Roller off Position
Still	-	-	H L	L	Still, Slow, F-ADV
Play	-	-	L H	L	PB, T-Stop, REC, Pause, F. PS, Z-FPS
Stop	-	-	H	L H	Stop, Power off
FF/REW	-	-	H L	H	FF, REW

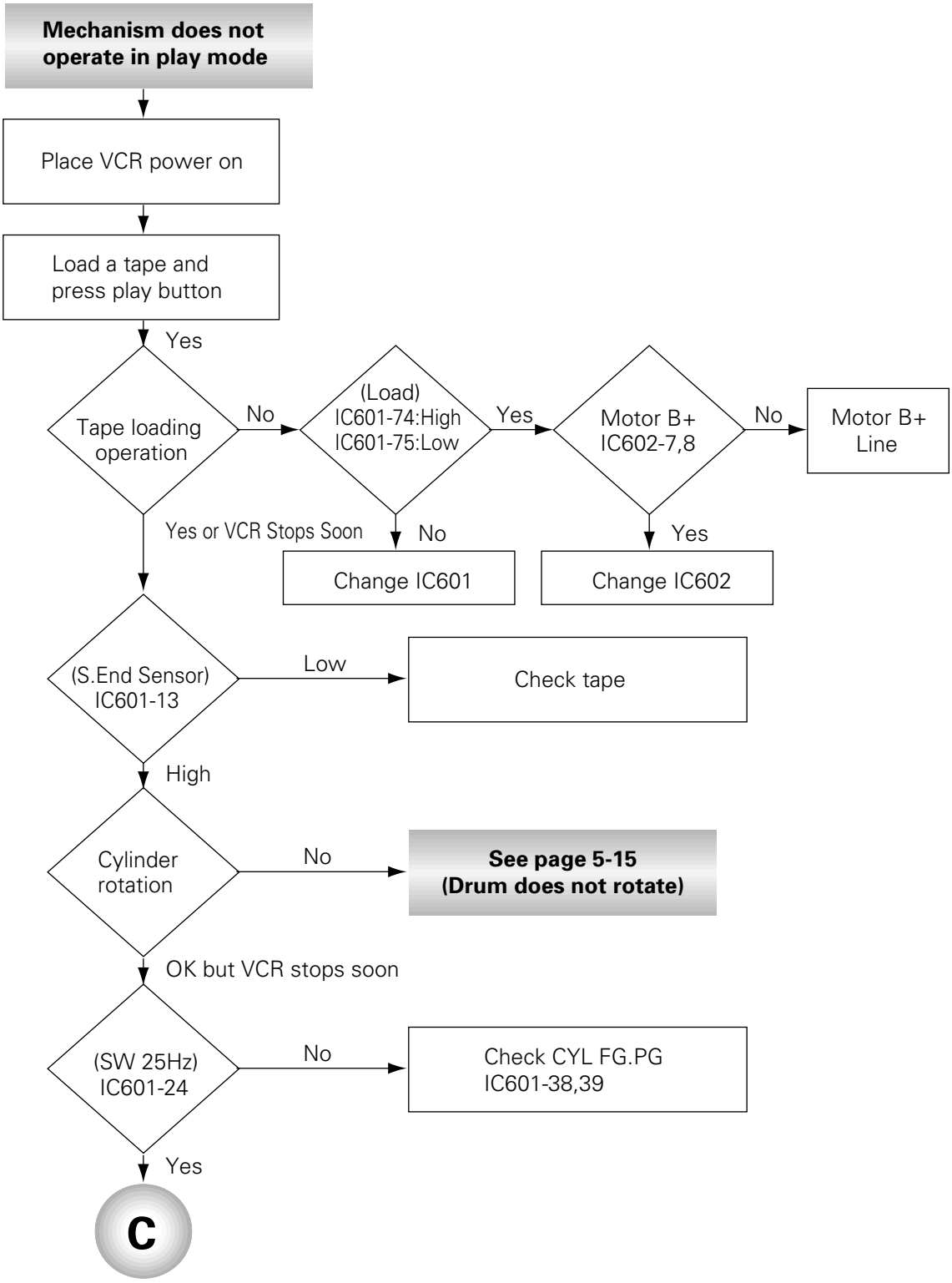
5. Troubleshooting

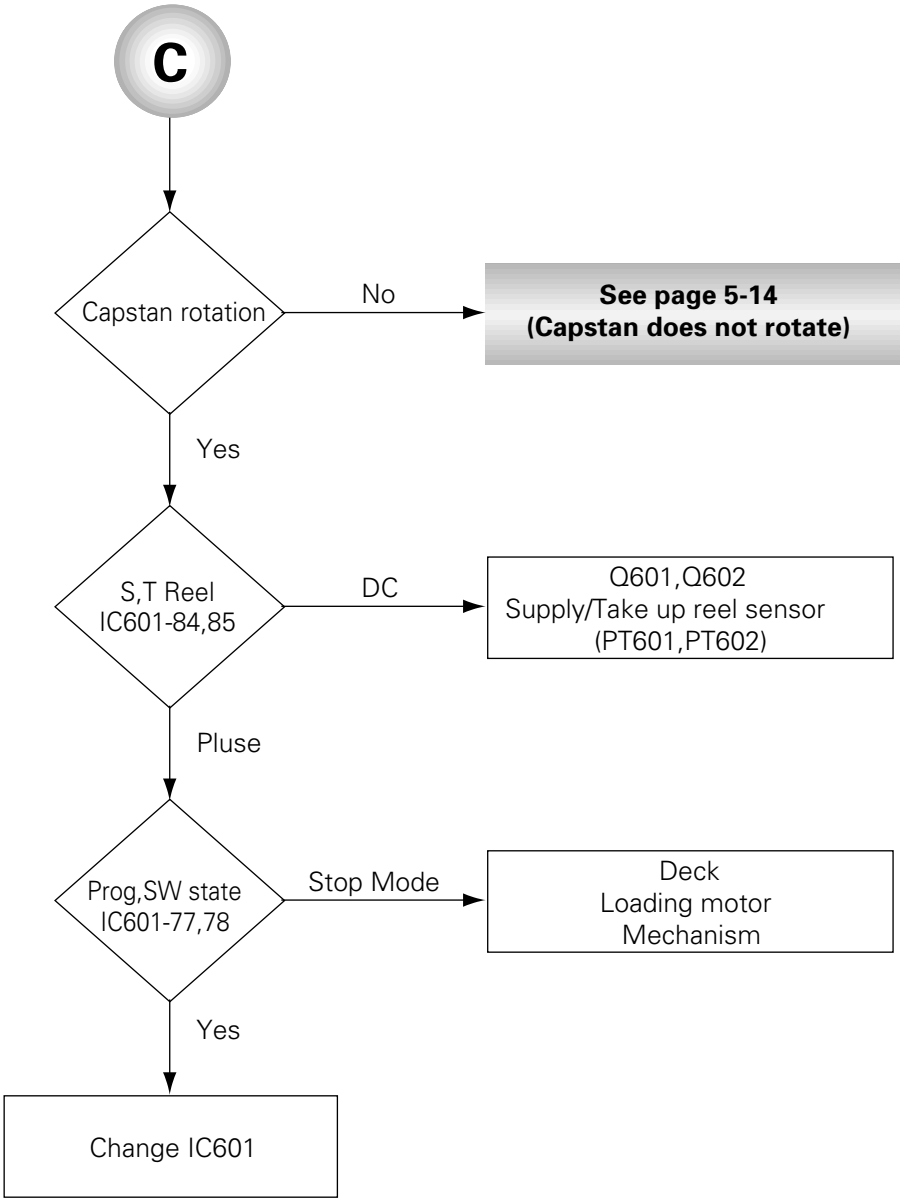


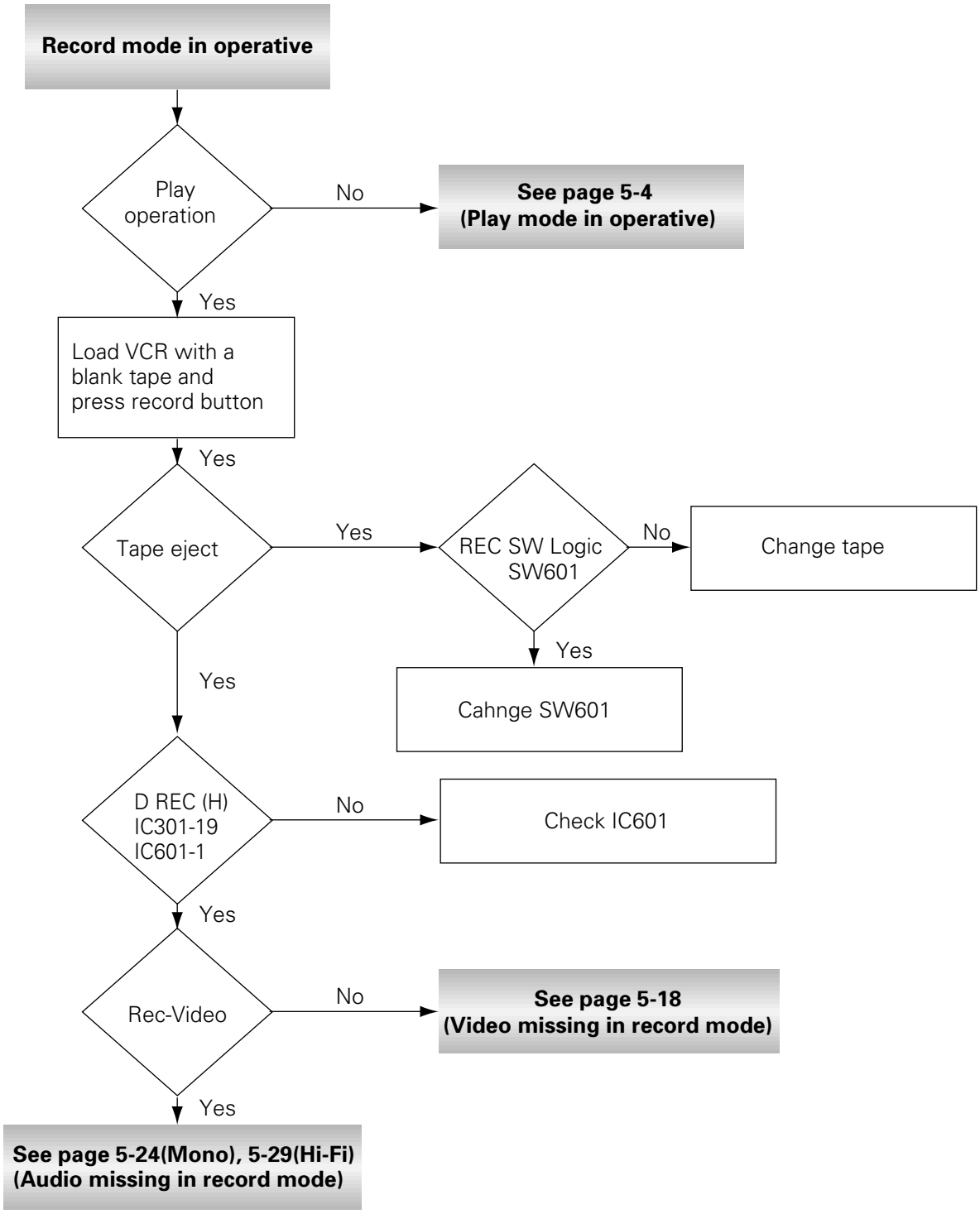

A
Yes
Check D11, D12,D13,D14, D15,R01
NO
Replace D11,D12,D13,D14,D15, R01
Yes
Check IC01
NO
Replace IC01
Yes
Check the feecback line of IC02
NO
Replace IC02
Yes
Check voltage of AL5.8V
NO
B
Yes
Check D34,IC03
NO
Replace D34,IC03
Yes
Replace transformer

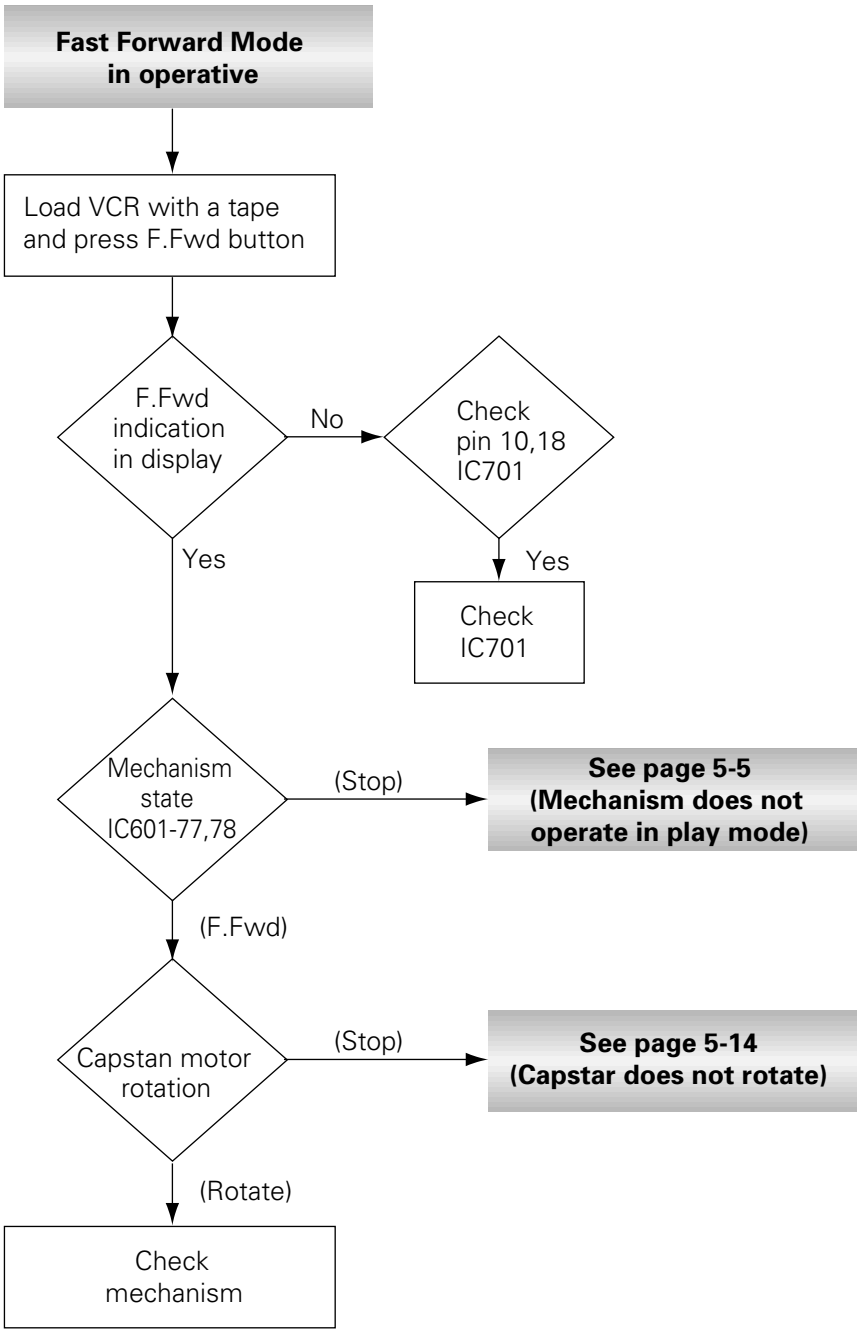

B
Yes
Check coil of L04
No
Replace L04
Yes
Check D34
No
Replace D34
Yes
Replace transformer

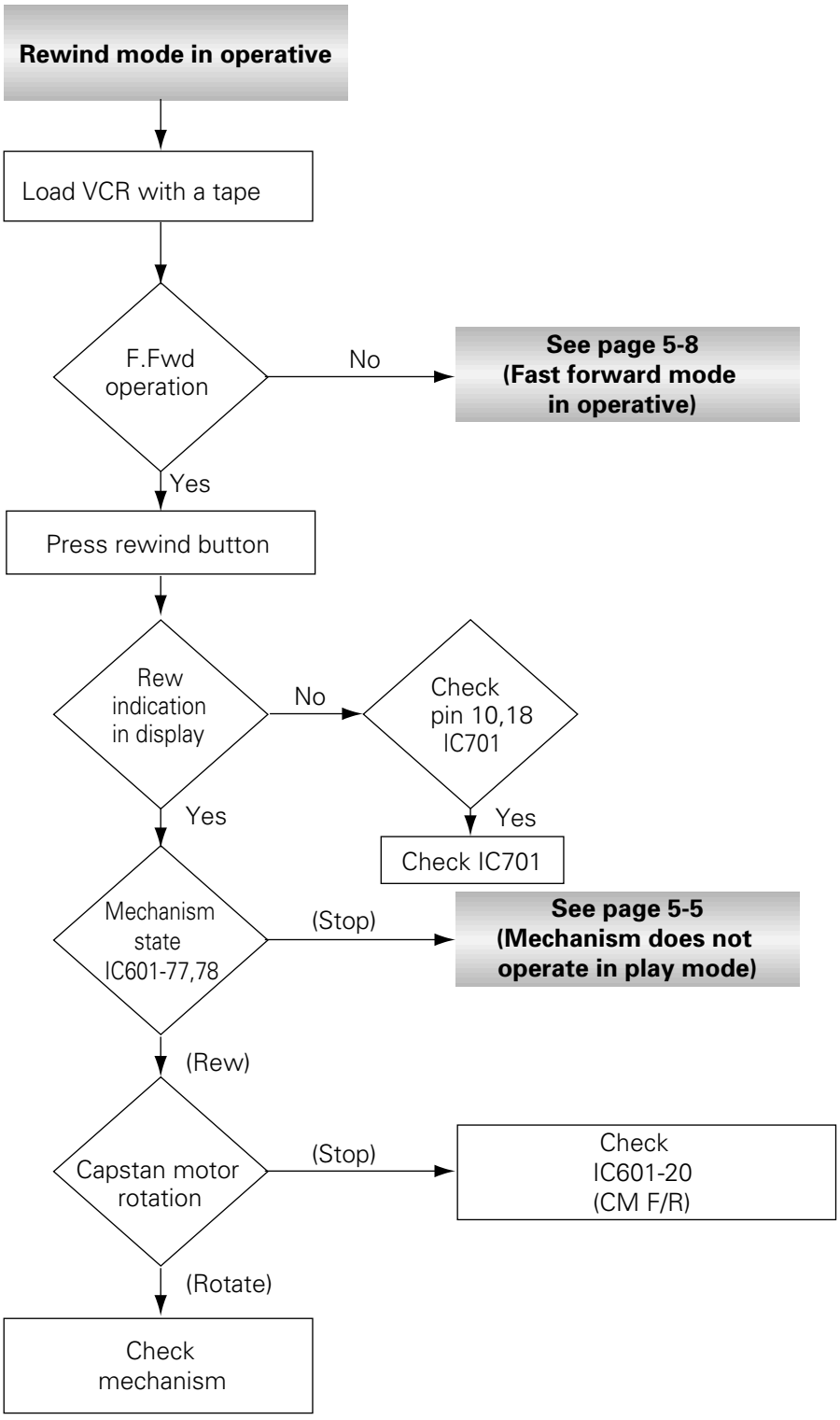

Play mode in operative
EE-Viedo
No
See page 5-16
(Video missing in EE mode)
Yes
Insert a cassette tape recorded by another VCR and press play button
Yes
Play indication in display
No
Check CN601
No
See page 5-1
(S.M.P.S In operative)
Yes
Check IC701
pin 10 ~ pin 15
Yes
Mechanism operation
No
See page 5-5
(Mechanism does not operate in play mode)
Does not operate or operates but stops soon
Yes
PB-Video
No
See page 5-17
(Video missing in play mode)
Yes
See page 5-23(Mono), 5-27(Hi-Fi)
(Audio missing in play mode)

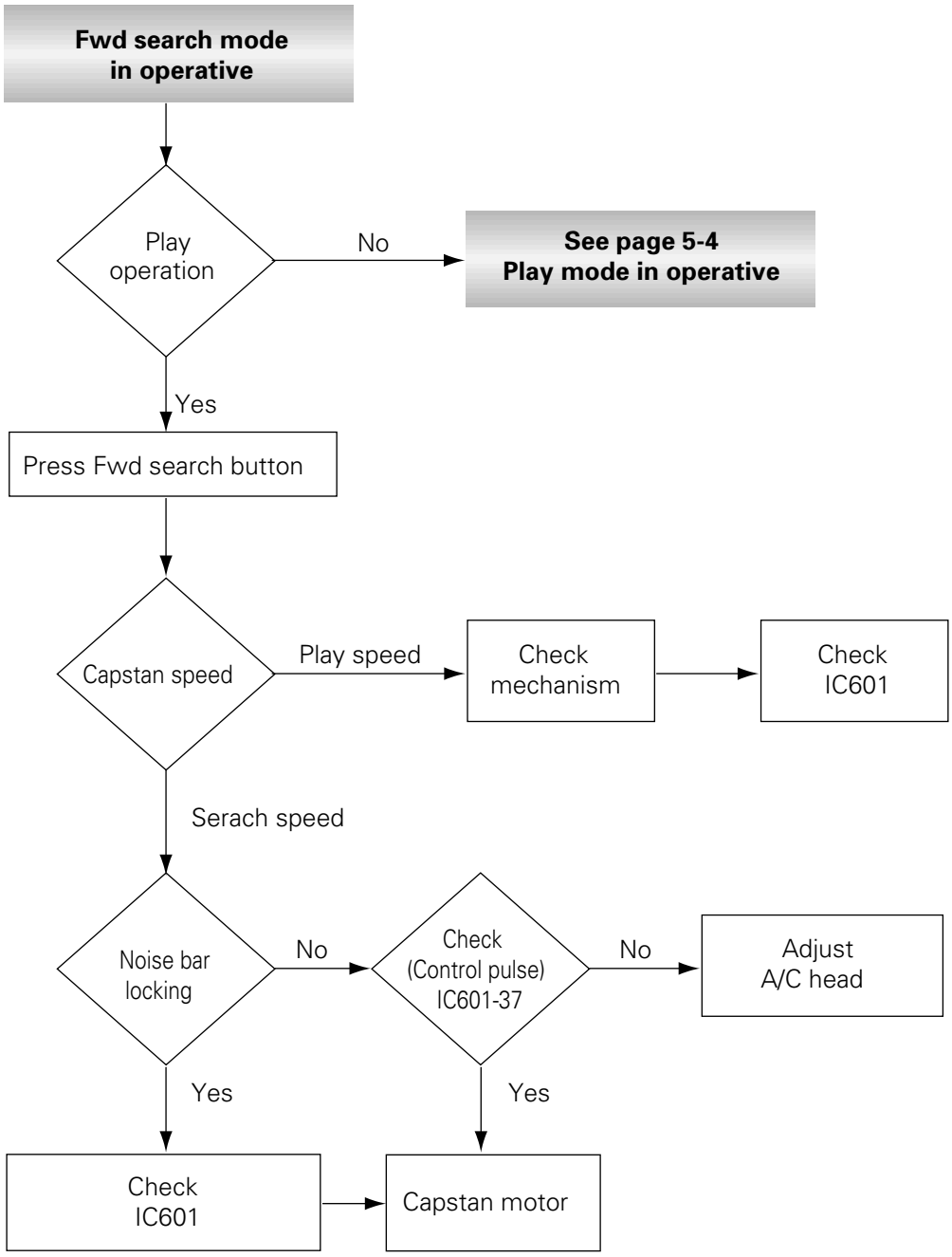

Mechanism does not operate in play mode
Place VCR power on
Load a tape and press play button
Yes
Tape loading operation
No
(Load) IC601-74:High IC601-75:Low
Yes
Motor B+ IC602-7,8
No
Motor B+ Line
Yes or VCR Stops Soon
No
Change IC601
Yes
Change IC602
(S.End Sensor) IC601-13
Low
Check tape
High
Cylinder rotation
No
See page 5-15 (Drum does not rotate)
OK but VCR stops soon
(SW 25Hz) IC601-24
No
Check CYL FG.PG IC601-38,39
Yes
C

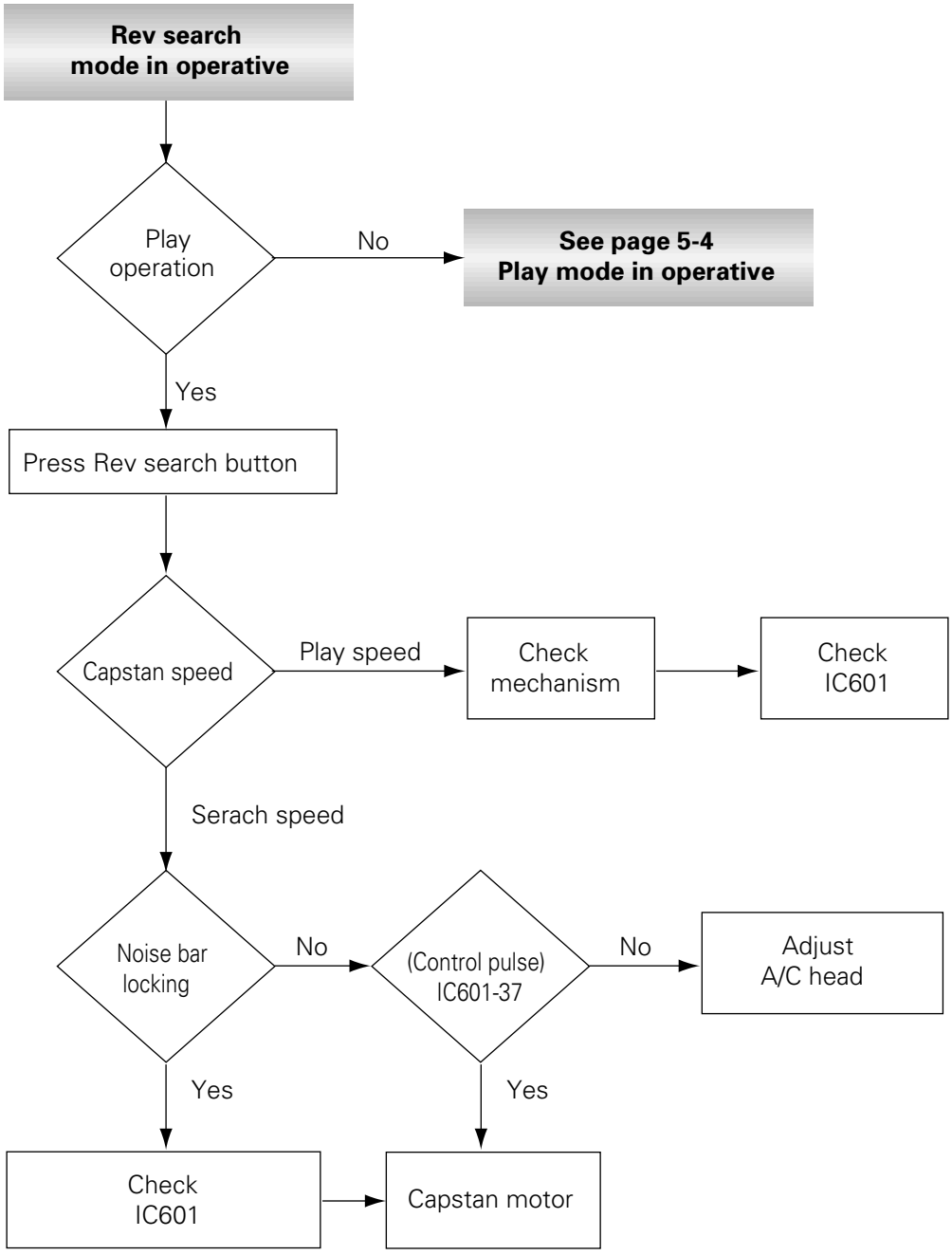

C
Capstan rotation
No
See page 5-14
(Capstan does not rotate)
Yes
S,T Reel
IC601-84,85
DC
Q601,Q602
Supply/Take up reel sensor
(PT601,PT602)
Pluse
Prog,SW state
IC601-77,78
Stop Mode
Deck
Loading motor
Mechanism
Yes
Change IC601

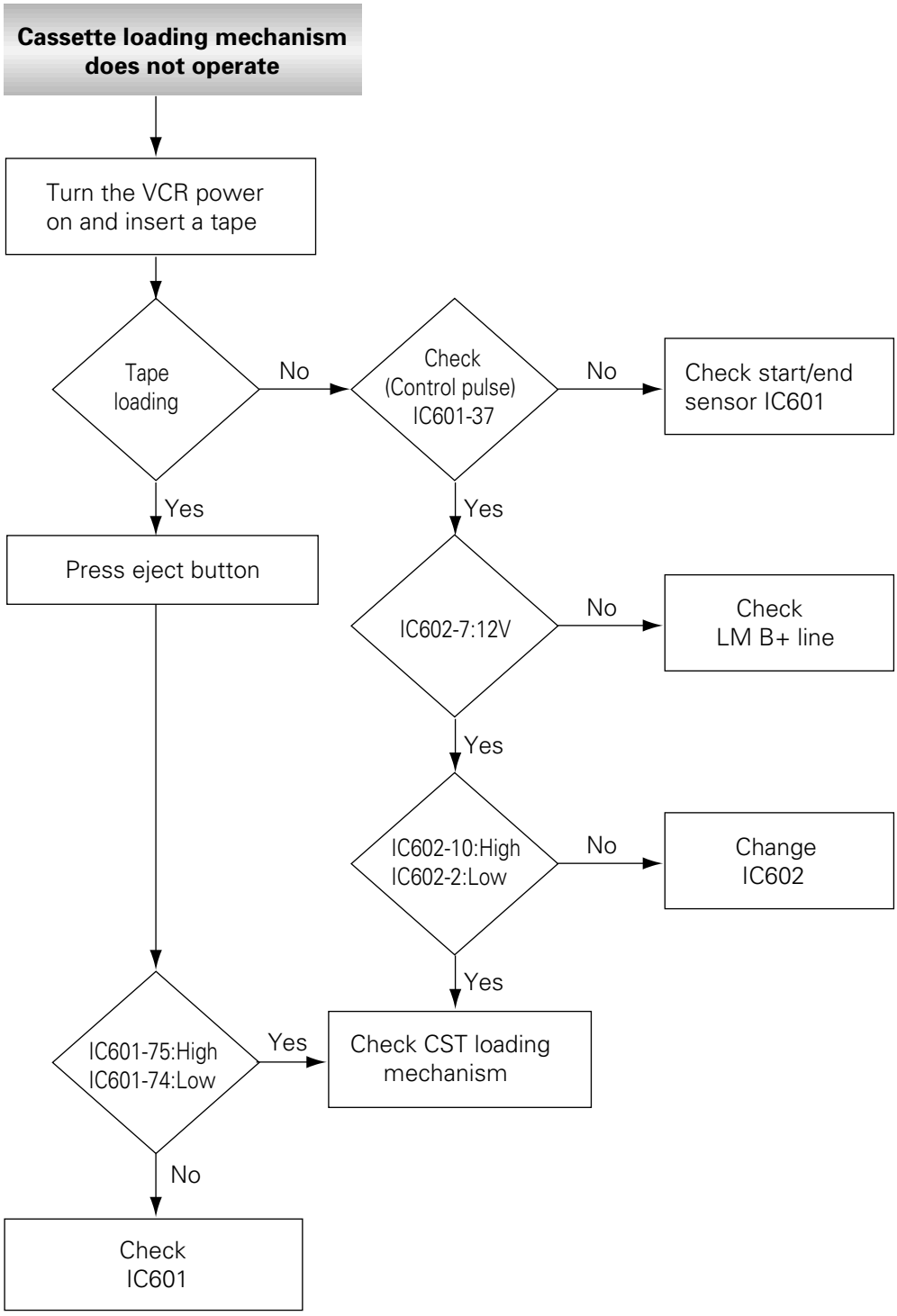

Record mode in operative
Play operation
No
See page 5-4 (Play mode in operative)
Yes
Load VCR with a blank tape and press record button
Yes
Tape eject
Yes
REC SW Logic SW601
No
Change tape
Yes
Cahnge SW601
Yes
D REC (H) IC301-19 IC601-1
No
Check IC601
Yes
Rec-Video
No
See page 5-18 (Video missing in record mode)
Yes
See page 5-24(Mono), 5-29(Hi-Fi) (Audio missing in record mode)

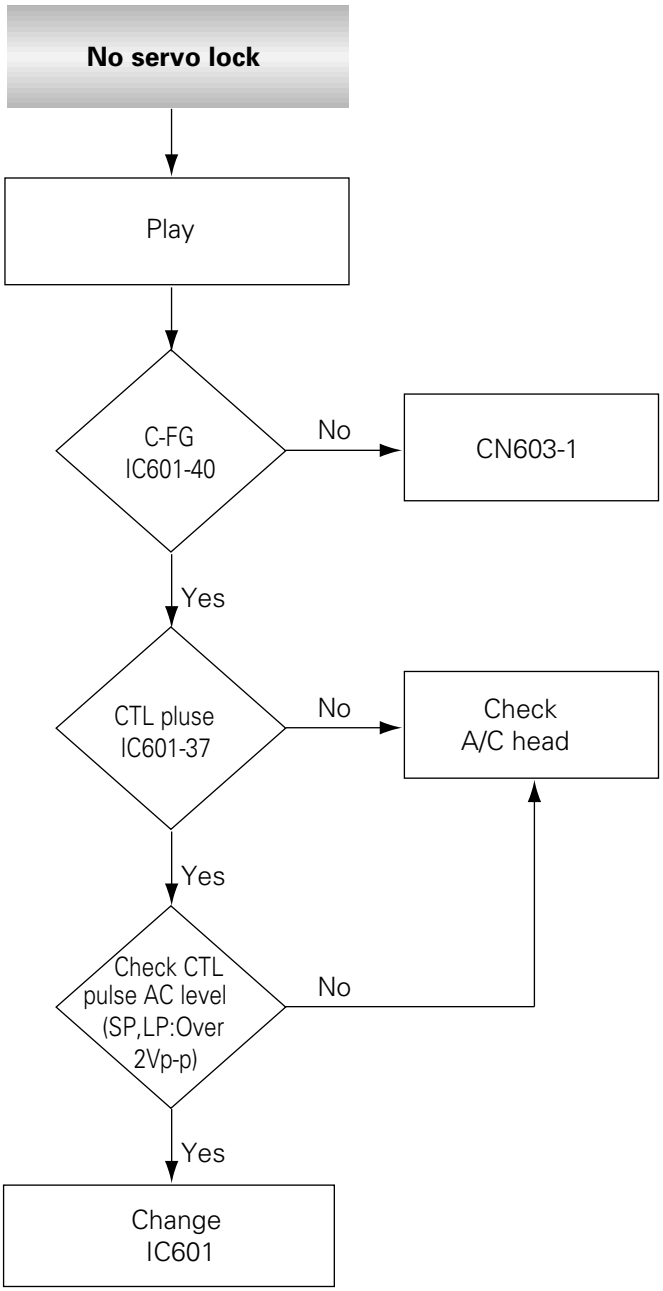

Fast Forward Mode in operative
Load VCR with a tape and press F.Fwd button
F.Fwd indication in display
No
Check pin 10,18 IC701
Yes
Yes
Check IC701
Mechanism state IC601-77,78
(Stop)
See page 5-5 (Mechanism does not operate in play mode)
(F.Fwd)
Capstan motor rotation
(Stop)
See page 5-14 (Capstar does not rotate)
(Rotate)
Check mechanism

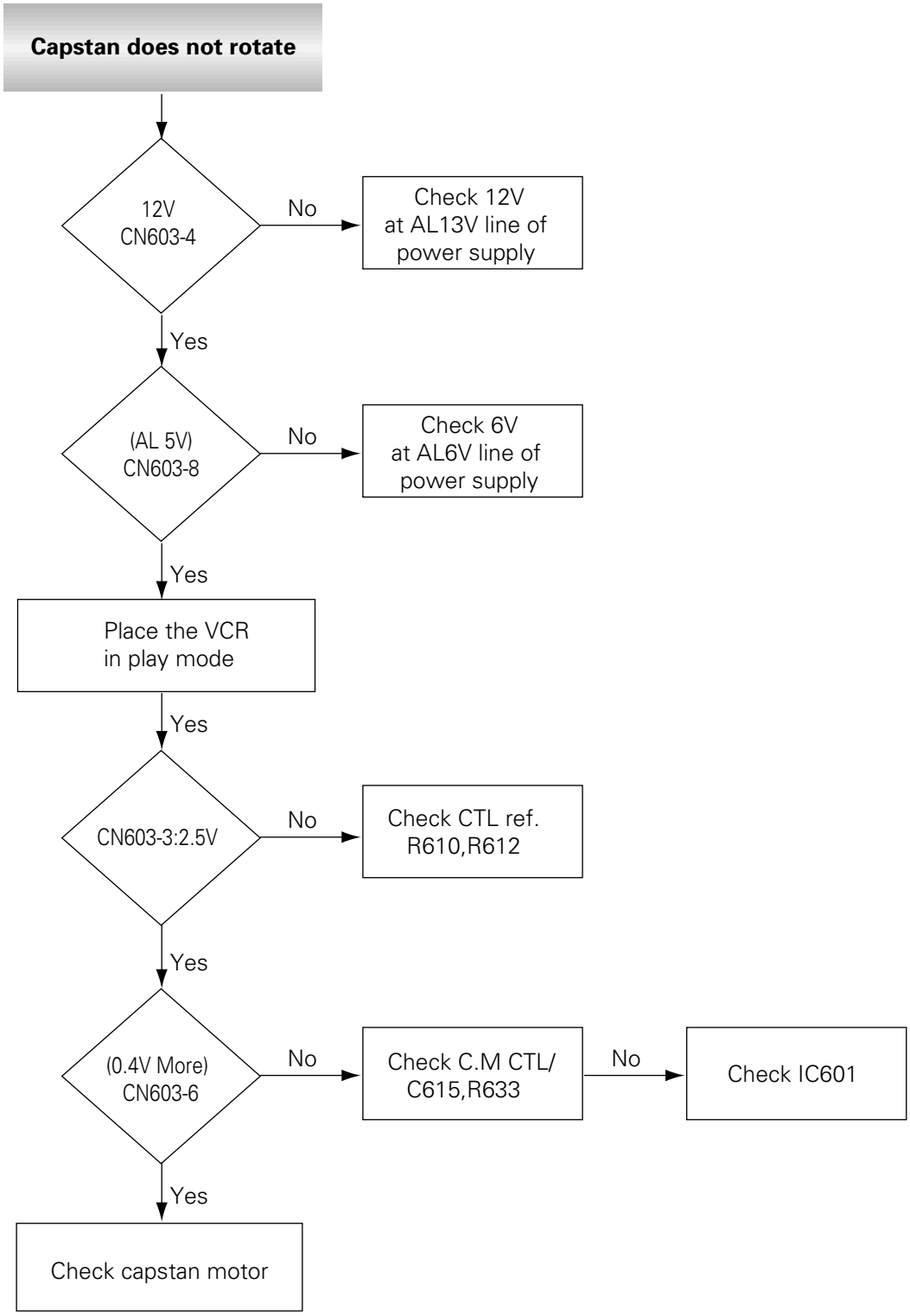

Rewind mode in operative
Load VCR with a tape
F.Fwd operation
No
See page 5-8 (Fast forward mode in operative)
Yes
Press rewind button
Rew indication in display
No
Check pin 10,18 IC701
Yes
Yes
Check IC701
Mechanism state IC601-77,78
(Stop)
See page 5-5 (Mechanism does not operate in play mode)
(Rew)
Capstan motor rotation
(Stop)
Check IC601-20 (CM F/R)
(Rotate)
Check mechanism

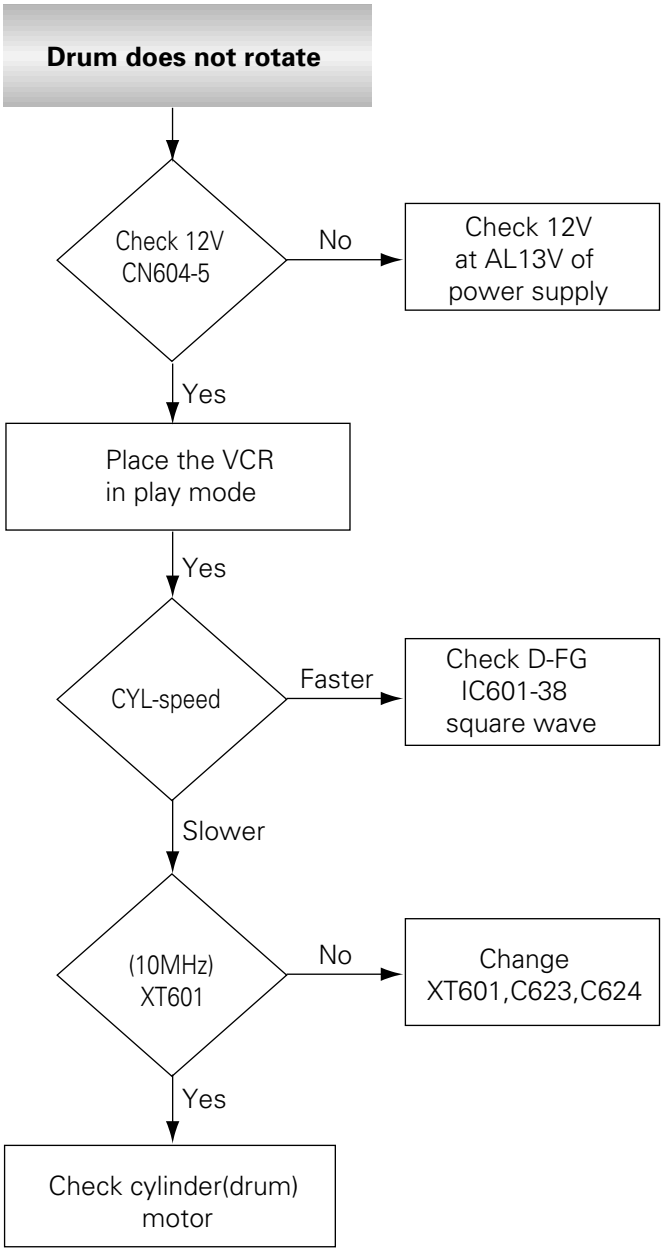

Fwd search mode
in operative
Play
operation
No
See page 5-4
Play mode in operative
Yes
Press Fwd search button
Capstan speed
Play speed
Check
mechanism
Check
IC601
Serach speed
Noise bar
locking
No
Check
(Control pulse)
IC601-37
No
Adjust
A/C head
Yes
Yes
Check
IC601
Capstan motor

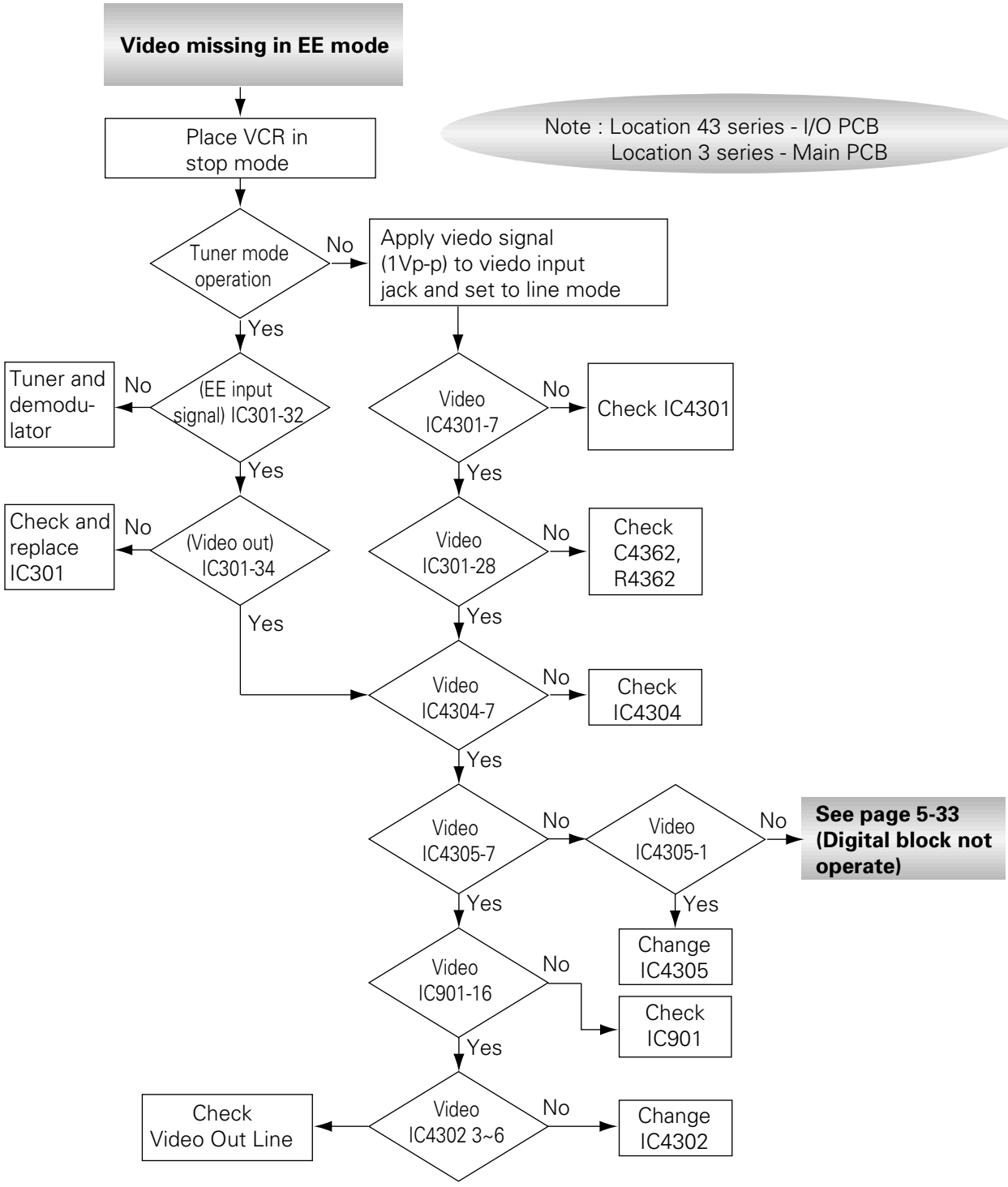

Rev search mode in operative
Play operation
No
See page 5-4 Play mode in operative
Yes
Press Rev search button
Capstan speed
Play speed
Check mechanism
Check IC601
Serach speed
Noise bar locking
No
(Control pulse) IC601-37
No
Adjust A/C head
Yes
Yes
Check IC601
Capstan motor

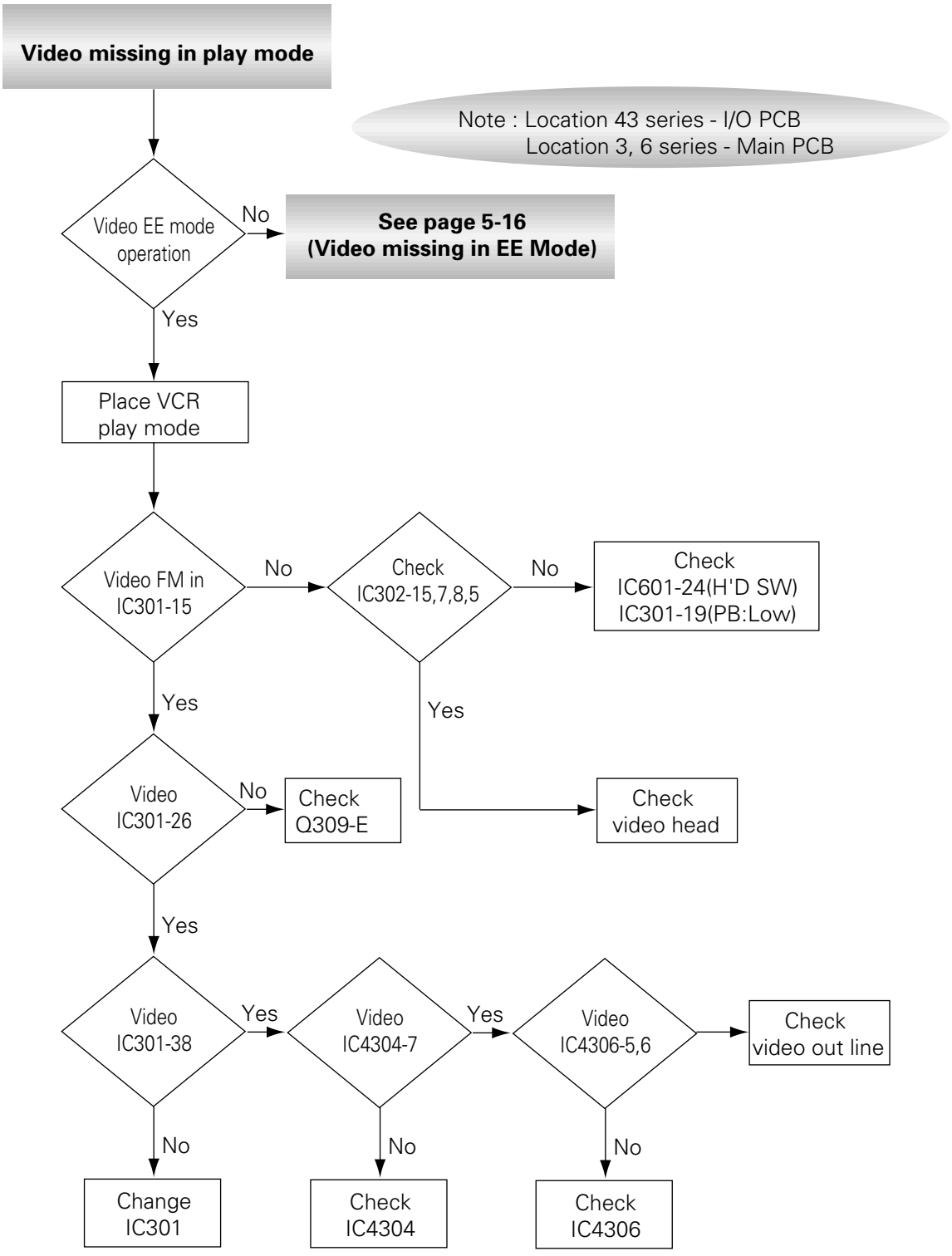

Cassette loading mechanism does not operate
Turn the VCR power on and insert a tape
Tape loading
No
Check (Control pulse) IC601-37
No
Check start/end sensor IC601
Yes
Yes
Press eject button
IC602-7:12V
No
Check LM B+ line
Yes
IC602-10:High IC602-2:Low
No
Change IC602
Yes
IC601-75:High IC601-74:Low
Yes
Check CST loading mechanism
No
Check IC601

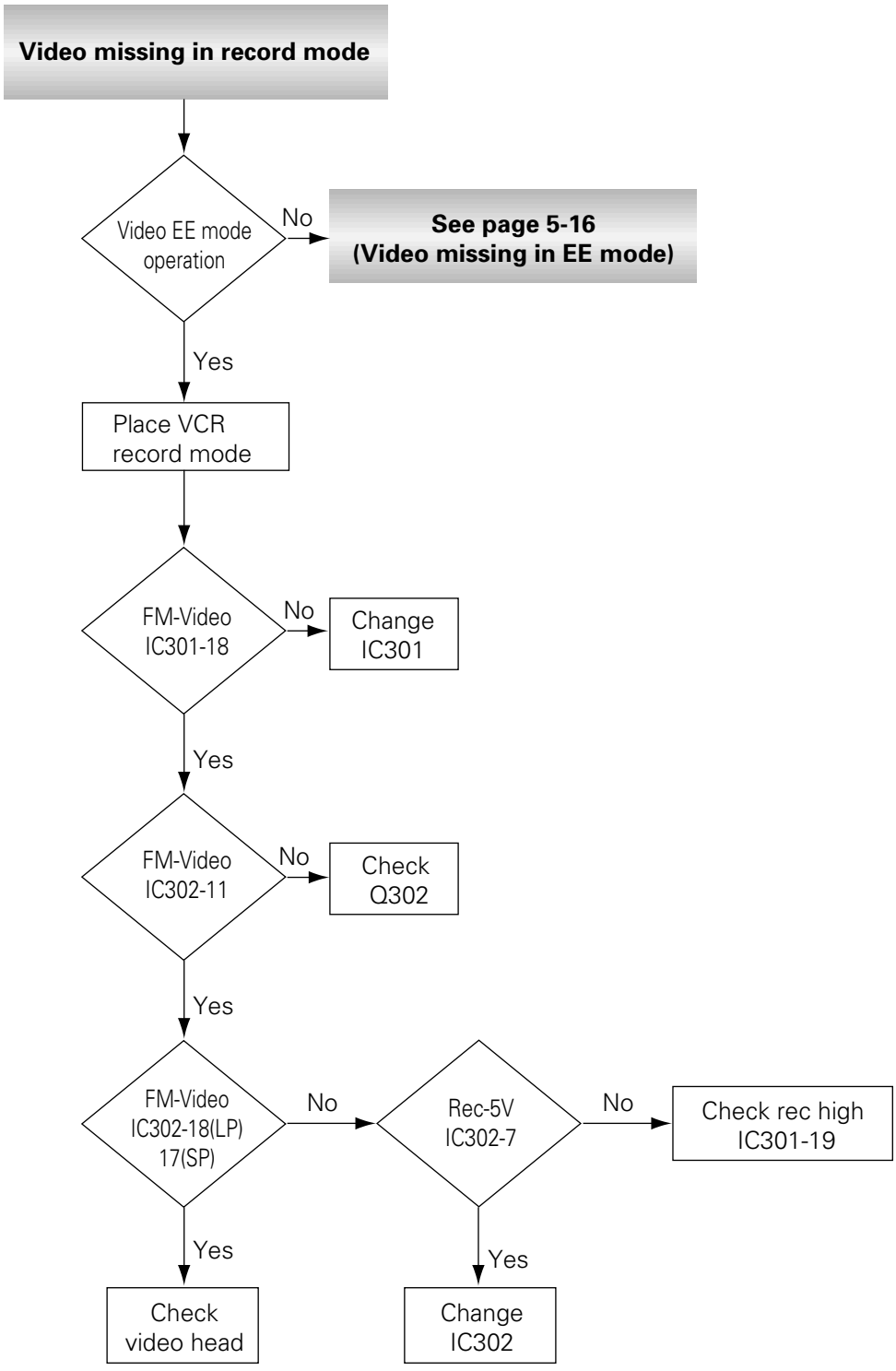

No servo lock
Play
C-FG
IC601-40
No
CN603-1
Yes
CTL pluse
IC601-37
No
Check
A/C head
Yes
Check CTL
pulse AC level
(SP,LP:Over
2Vp-p)
No
Yes
Change
IC601

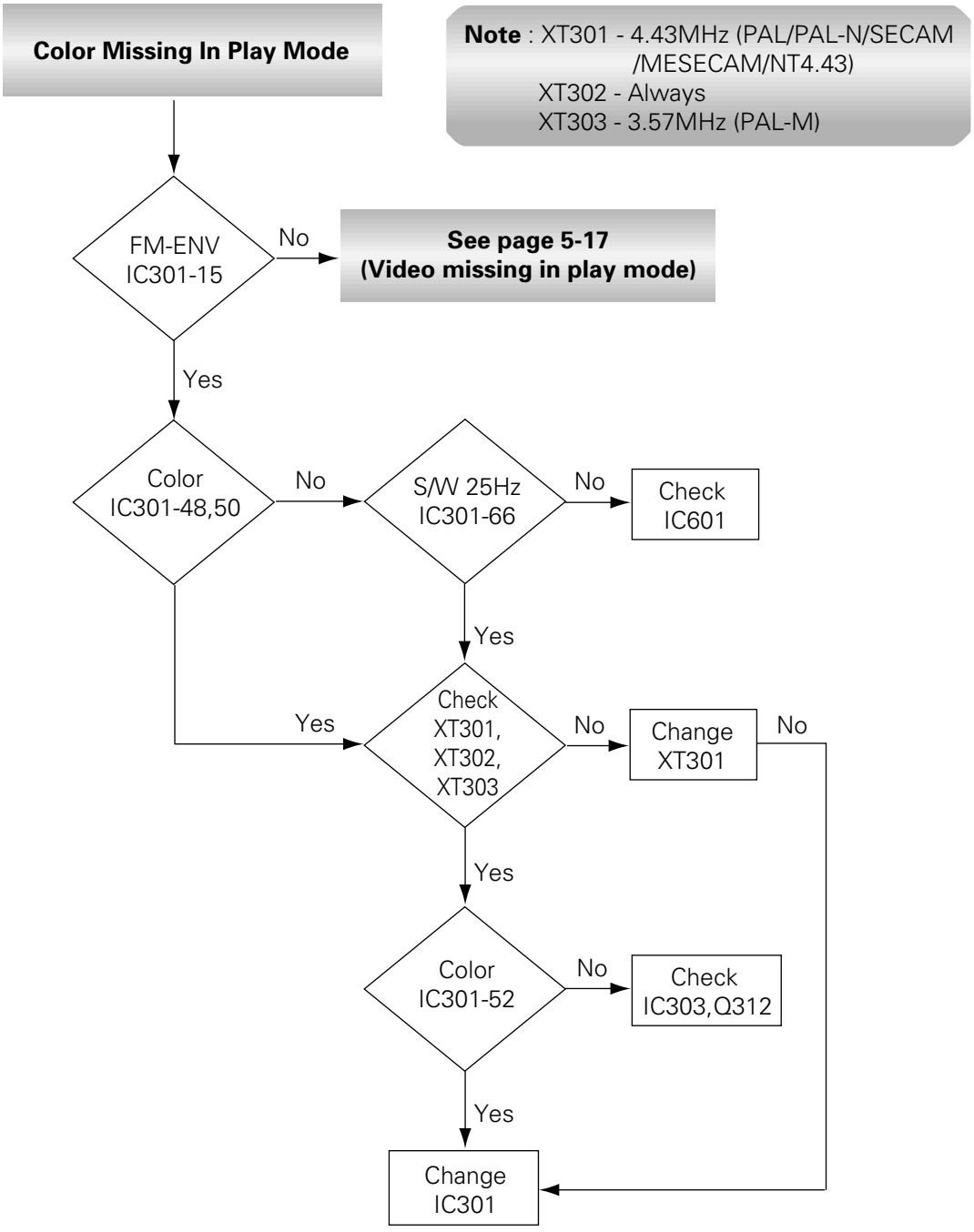

Capstan does not rotate
12V
CN603-4
No
Check 12V
at AL13V line of
power supply
Yes
(AL 5V)
CN603-8
No
Check 6V
at AL6V line of
power supply
Yes
Place the VCR
in play mode
Yes
CN603-3:2.5V
No
Check CTL ref.
R610,R612
Yes
(0.4V More)
CN603-6
No
Check C.M CTL/
C615,R633
No
Check IC601
Yes
Check capstan motor

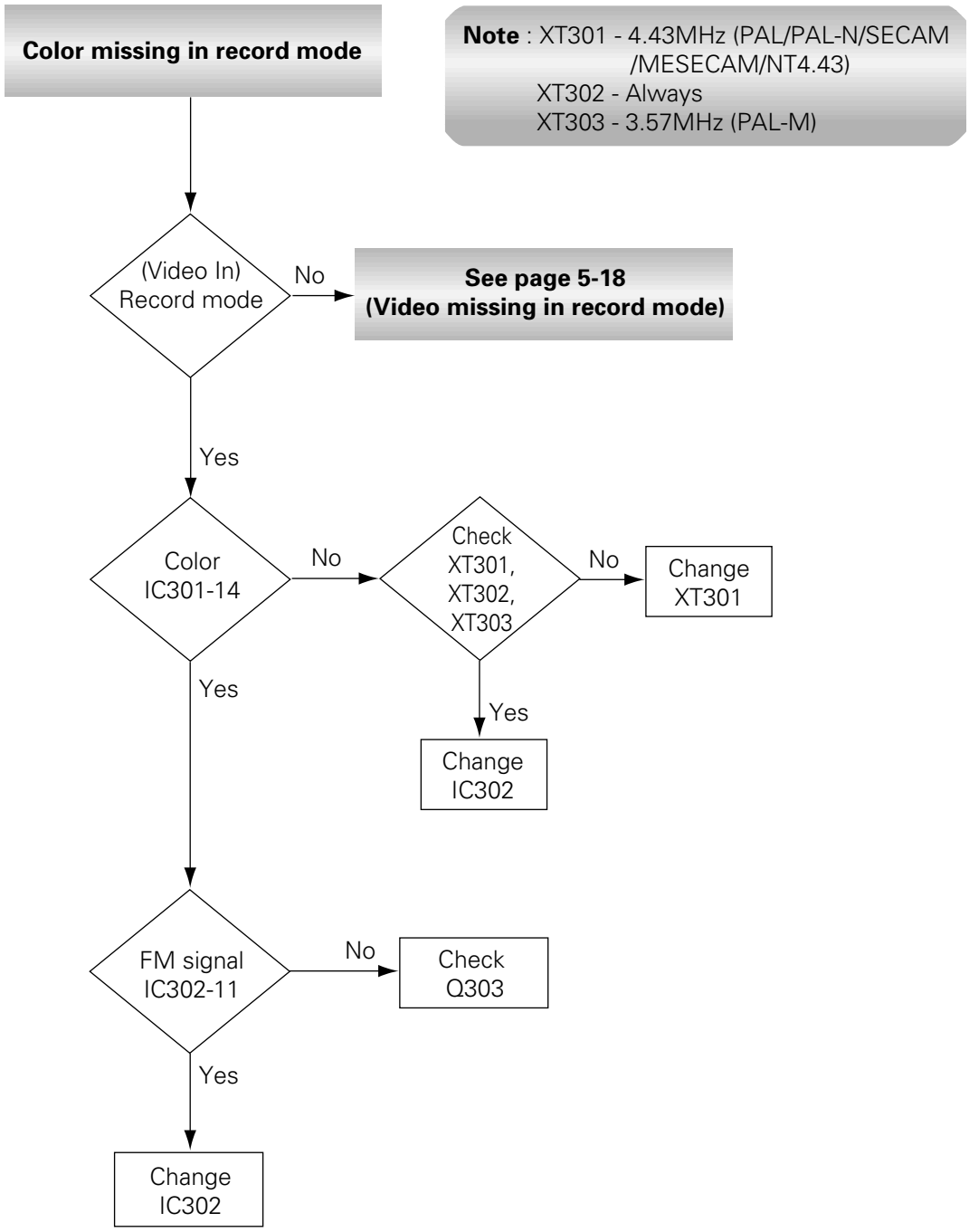

Drum does not rotate
Check 12V CN604-5
No
Check 12V at AL13V of power supply
Yes
Place the VCR in play mode
Yes
CYL-speed
Faster
Check D-FG IC601-38 square wave
Slower
(10MHz) XT601
No
Change XT601,C623,C624
Yes
Check cylinder(drum) motor


Video missing in EE mode
Place VCR in stop mode
Note : Location 43 series - I/O PCB
Location 3 series - Main PCB
Tuner mode operation
No
Apply viedo signal (1Vp-p) to viedo input jack and set to line mode
Yes
Tuner and demodu-lator
No
(EE input signal) IC301-32
Yes
Video IC4301-7
No
Check IC4301
Yes
Check and replace IC301
No
(Video out) IC301-34
Yes
Video IC301-28
No
Check C4362, R4362
Yes
Video IC4304-7
No
Check IC4304
Yes
Video IC4305-7
No
Video IC4305-1
No
See page 5-33 (Digital block not operate)
Yes
Yes
Change IC4305
Video IC901-16
No
Check IC901
Yes
Check Video Out Line
Video IC4302 3~6
No
Change IC4302

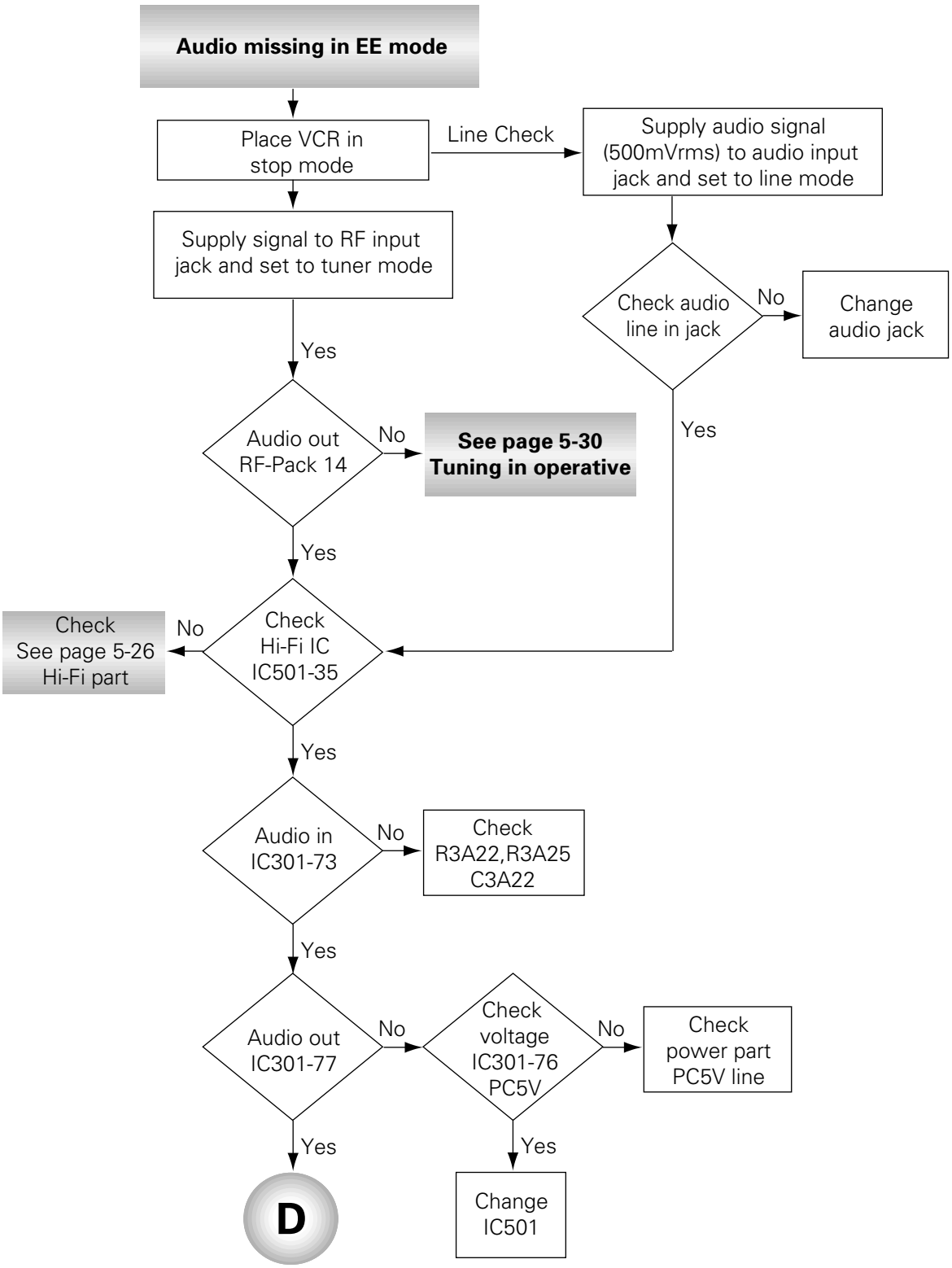

Video missing in play mode
Note : Location 43 series - I/O PCB
Location 3, 6 series - Main PCB
Video EE mode operation
No
See page 5-16 (Video missing in EE Mode)
Yes
Place VCR play mode
Video FM in IC301-15
No
Check IC302-15,7,8,5
No
Check IC601-24(H'D SW) IC301-19(PB:Low)
Yes
Yes
Video IC301-26
No
Check Q309-E
Check video head
Yes
Video IC301-38
Yes
Video IC4304-7
Yes
Video IC4306-5,6
Check video out line
No
No
No
Change IC301
Check IC4304
Check IC4306

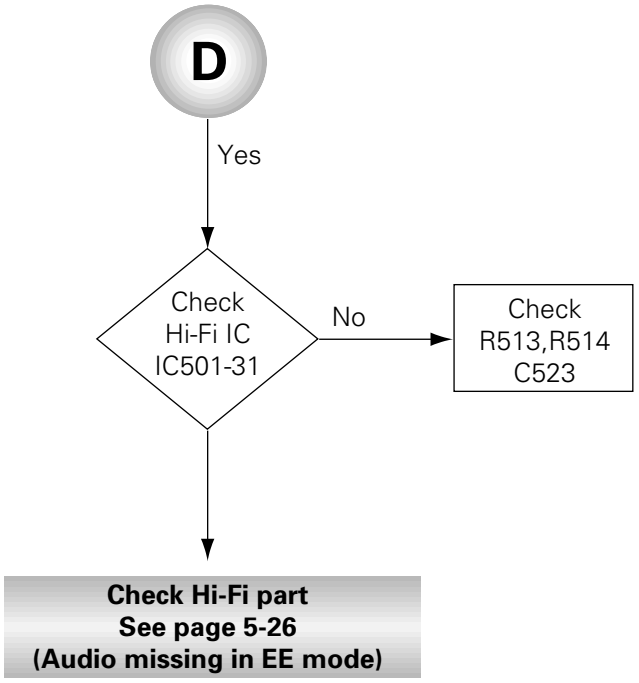

Video missing in record mode
Video EE mode operation
No
See page 5-16 (Video missing in EE mode)
Yes
Place VCR record mode
FM-Video IC301-18
No
Change IC301
Yes
FM-Video IC302-11
No
Check Q302
Yes
FM-Video IC302-18(LP) 17(SP)
No
Rec-5V IC302-7
No
Check rec high IC301-19
Yes
Check video head
Yes
Change IC302


Color Missing In Play Mode
Note : XT301 - 4.43MHz (PAL/PAL-N/SECAM /MESECAM/NT4.43)
XT302 - Always
XT303 - 3.57MHz (PAL-M)
FM-ENV IC301-15
No
See page 5-17 (Video missing in play mode)
Yes
Color IC301-48,50
No
S/W 25Hz IC301-66
No
Check IC601
Yes
Yes
Check XT301, XT302, XT303
No
Change XT301
No
Yes
Color IC301-52
No
Check IC303,Q312
Yes
Change IC301

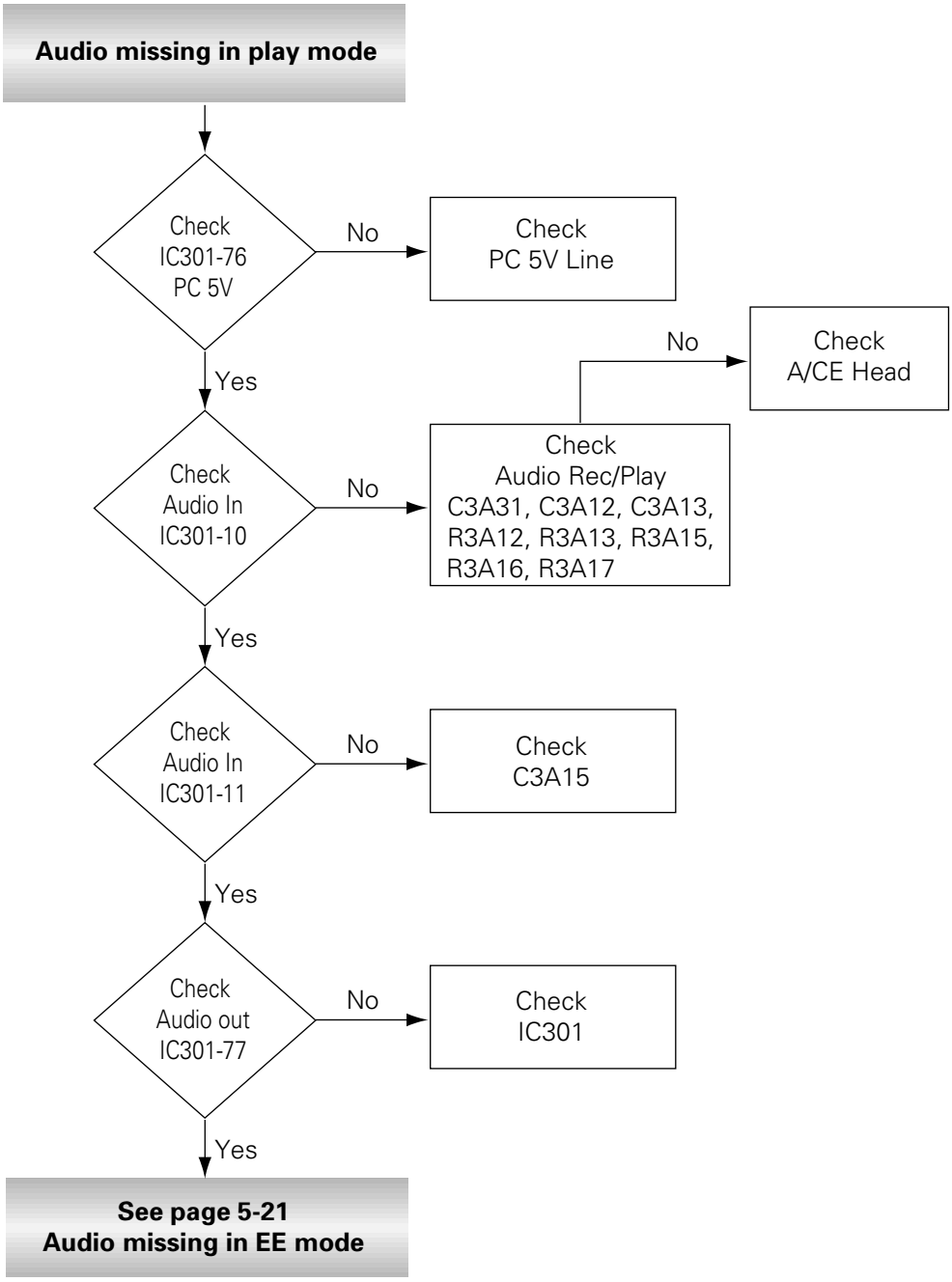

Color missing in record mode
Note : XT301 - 4.43MHz (PAL/PAL-N/SECAM /MESECAM/NT4.43)
XT302 - Always
XT303 - 3.57MHz (PAL-M)
(Video In) Record mode
No
See page 5-18 (Video missing in record mode)
Yes
Color IC301-14
No
Check XT301, XT302, XT303
No
Change XT301
Yes
Change IC302
Yes
FM signal IC302-11
No
Check Q303
Yes
Change IC302

(MONO)

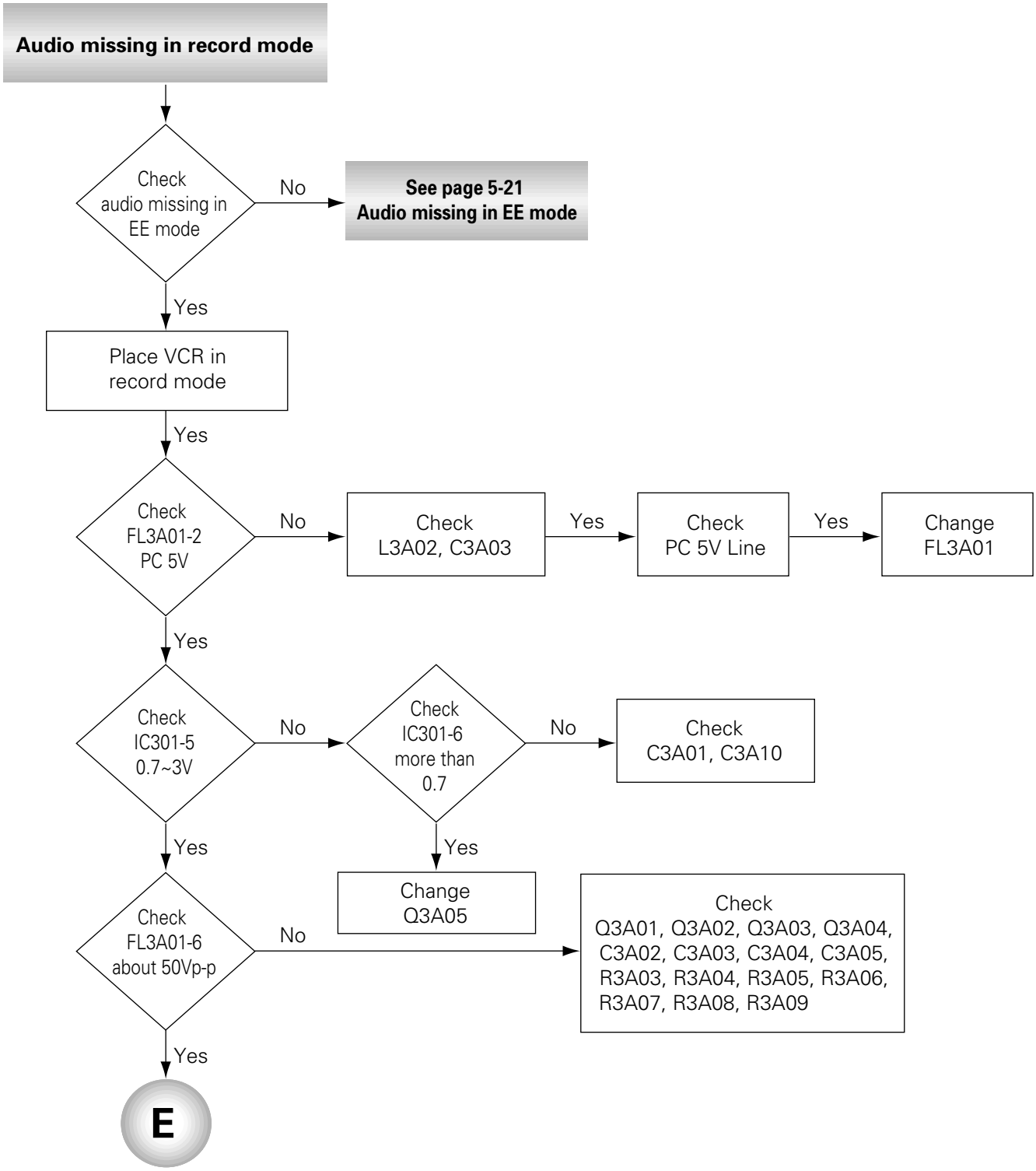

Audio missing in EE mode
Place VCR in stop mode
Line Check
Supply audio signal (500mVrms) to audio input jack and set to line mode
Supply signal to RF input jack and set to tuner mode
Check audio line in jack
No
Change audio jack
Yes
Audio out RF-Pack 14
No
See page 5-30 Tuning in operative
Yes
Yes
Check Hi-Fi IC IC501-35
No
Check See page 5-26 Hi-Fi part
Yes
Audio in IC301-73
No
Check R3A22,R3A25 C3A22
Yes
Audio out IC301-77
No
Check voltage IC301-76 PC5V
No
Check power part PC5V line
Yes
Yes
D
Change IC501

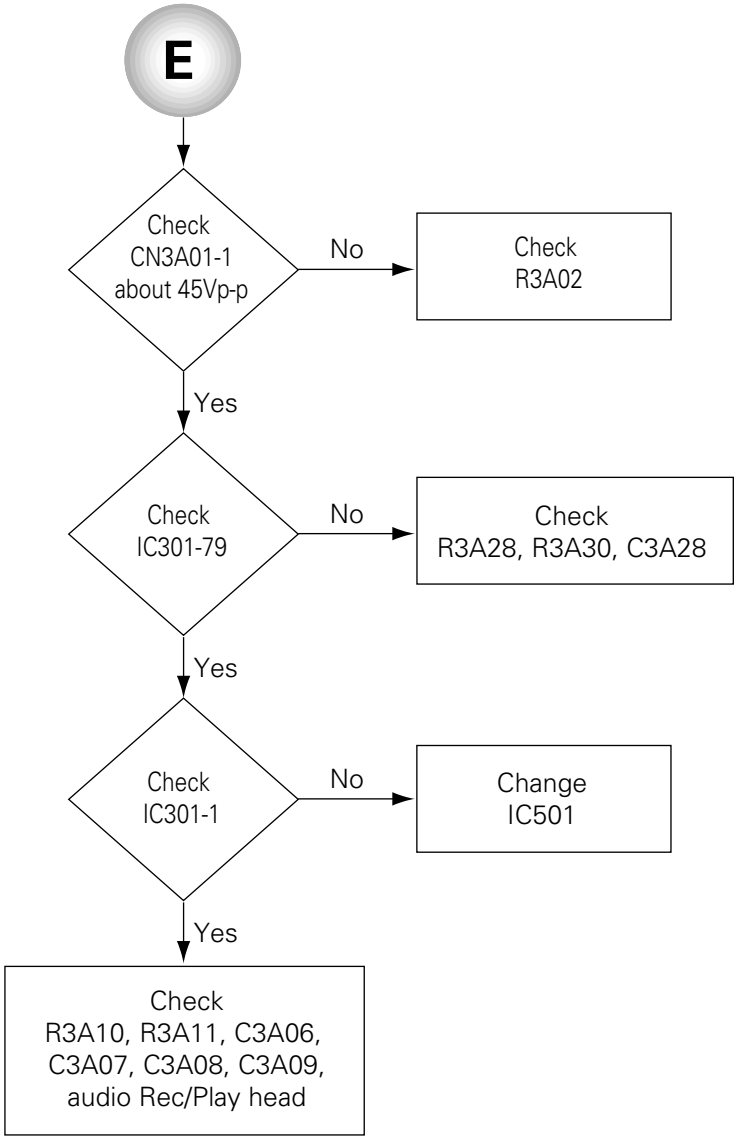

D
Yes
Check
Hi-Fi IC
IC501-31
No
Check
R513,R514
C523
Check Hi-Fi part
See page 5-26
(Audio missing in EE mode)

(MONO)

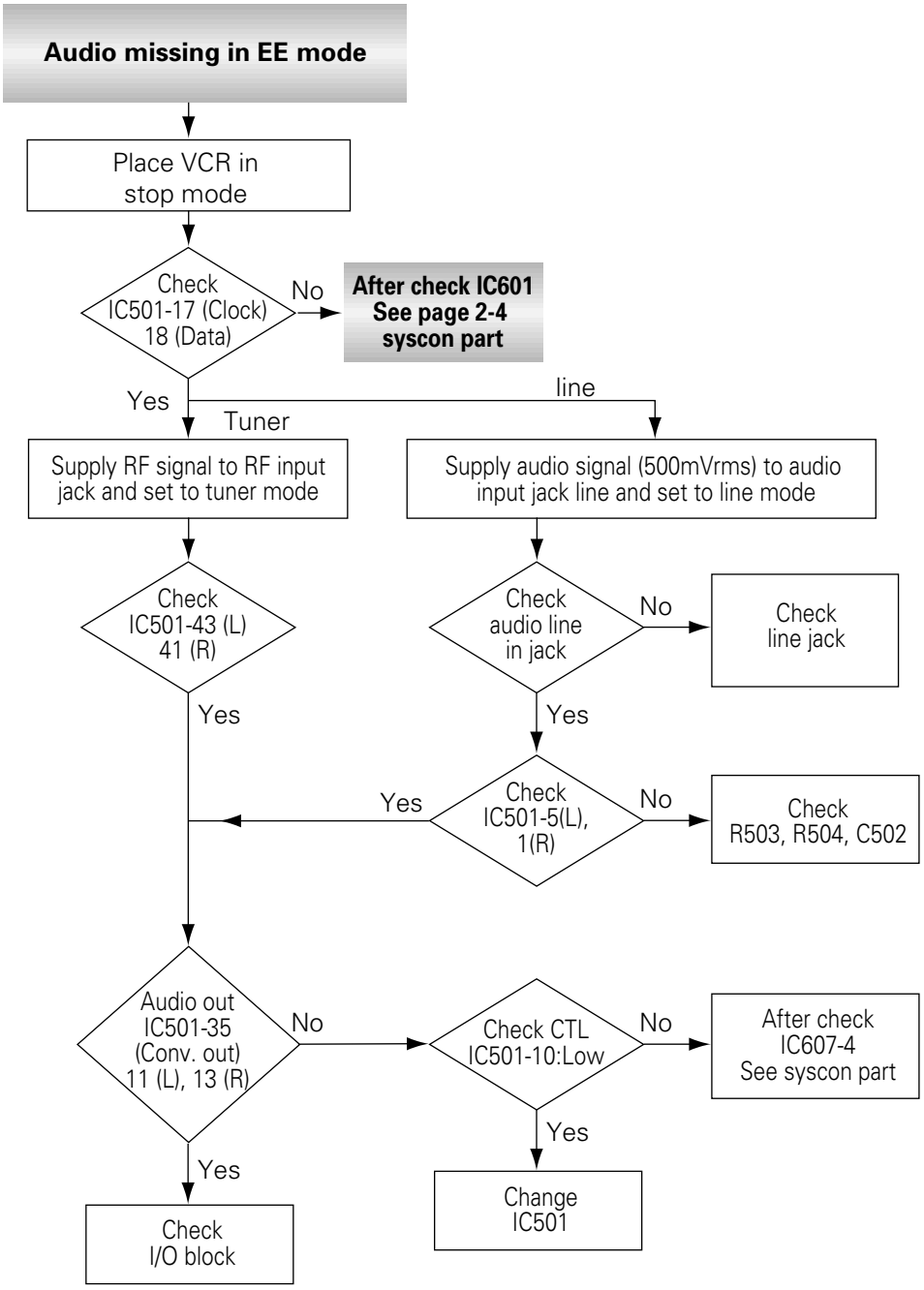

Audio missing in play mode
Check IC301-76 PC 5V
No
Check PC 5V Line
Yes
Check Audio In IC301-10
No
Check A/CE Head
Check Audio Rec/Play C3A31, C3A12, C3A13, R3A12, R3A13, R3A15, R3A16, R3A17
Yes
Check Audio In IC301-11
No
Check C3A15
Yes
Check Audio out IC301-77
No
Check IC301
Yes
See page 5-21 Audio missing in EE mode

(MONO)

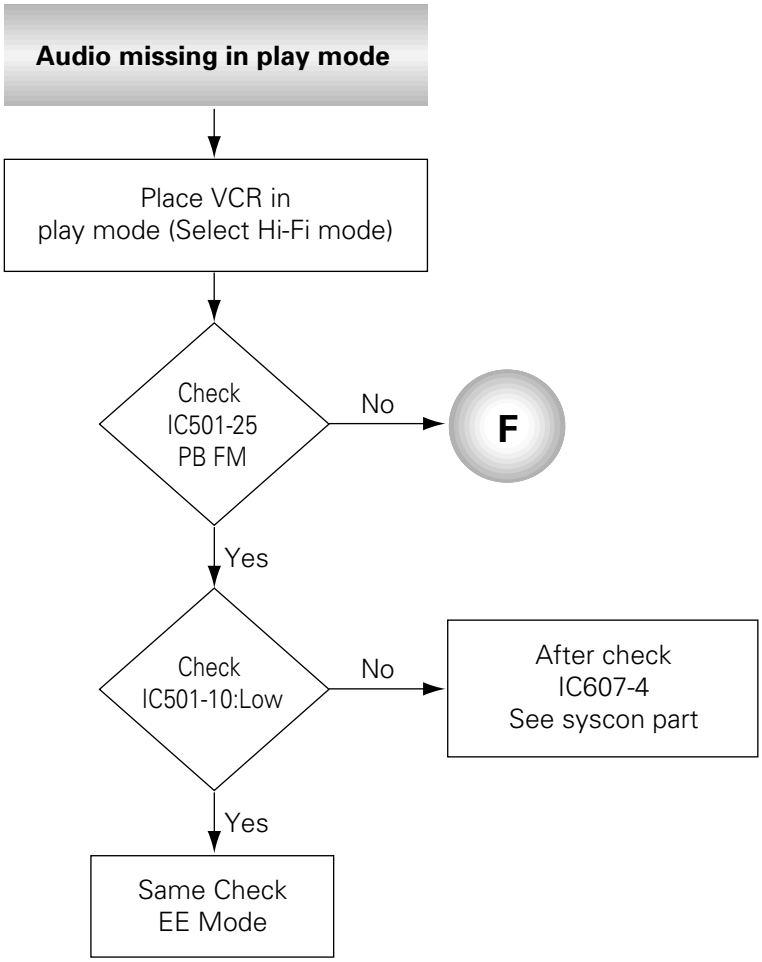

Audio missing in record mode
Check audio missing in EE mode
No
See page 5-21 Audio missing in EE mode
Yes
Place VCR in record mode
Yes
Check FL3A01-2 PC 5V
No
Check L3A02, C3A03
Yes
Check PC 5V Line
Yes
Change FL3A01
Yes
Check IC301-5 0.7~3V
No
Check IC301-6 more than 0.7
No
Check C3A01, C3A10
Yes
Yes
Change Q3A05
Check FL3A01-6 about 50Vp-p
No
Check Q3A01, Q3A02, Q3A03, Q3A04, C3A02, C3A03, C3A04, C3A05, R3A03, R3A04, R3A05, R3A06, R3A07, R3A08, R3A09
Yes
E

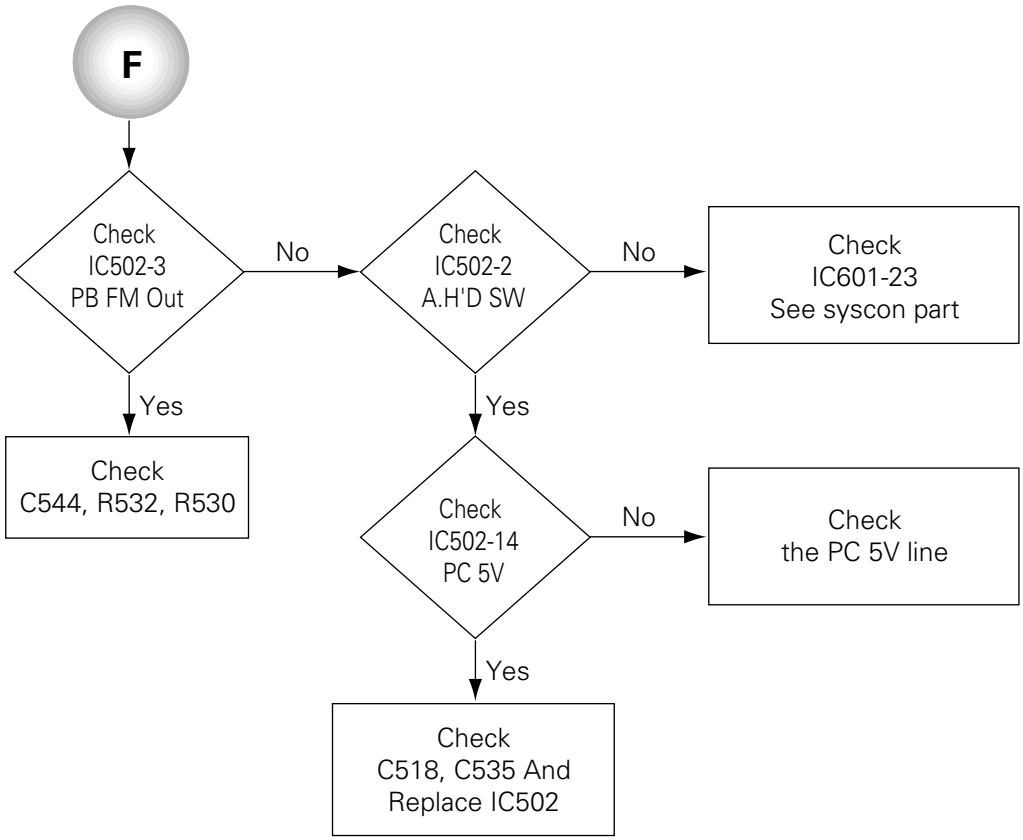

E
Check CN3A01-1 about 45Vp-p
No
Check R3A02
Yes
Check IC301-79
No
Check R3A28, R3A30, C3A28
Yes
Check IC301-1
No
Change IC501
Yes
Check R3A10, R3A11, C3A06, C3A07, C3A08, C3A09, audio Rec/Play head

(HI-FI)

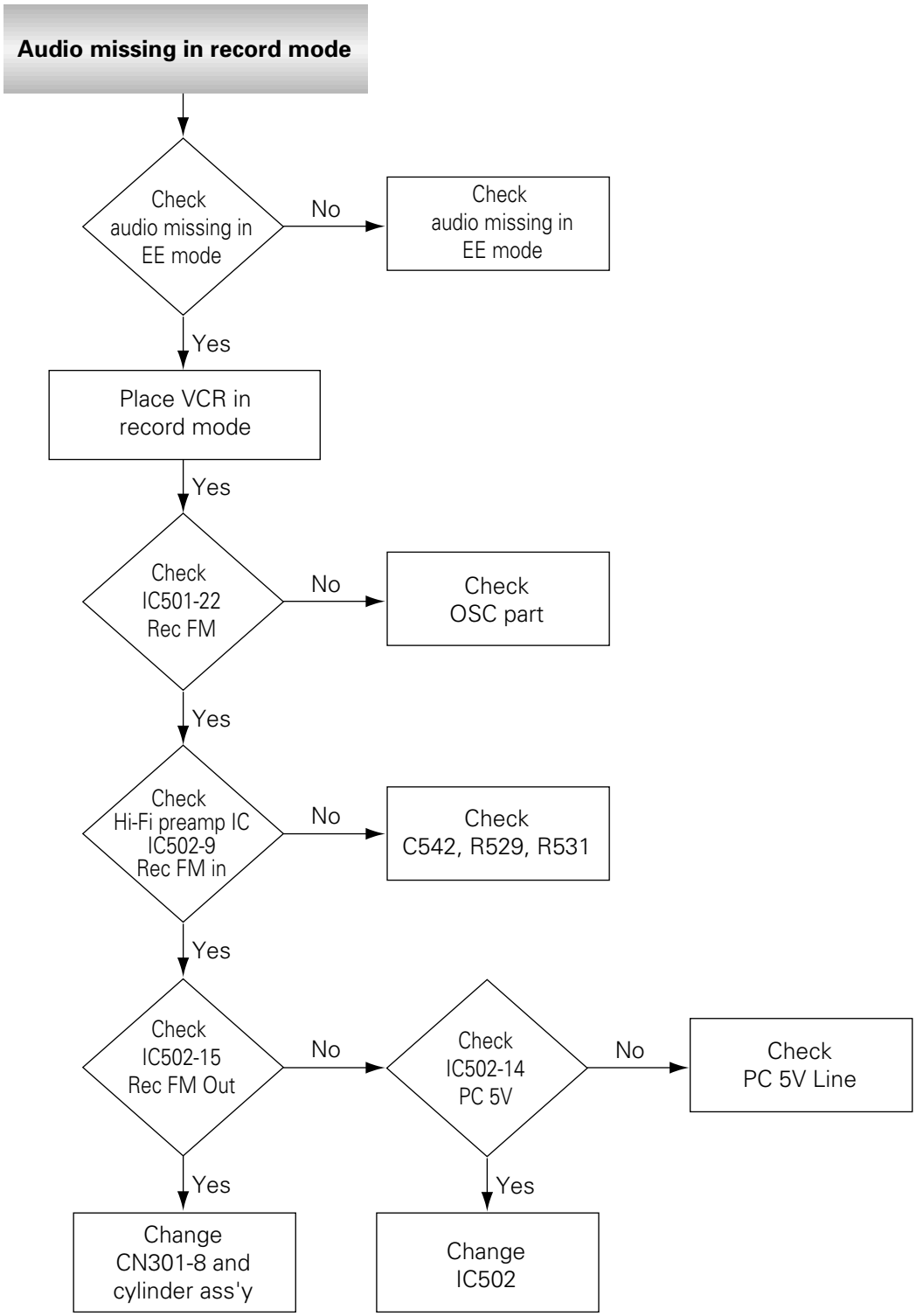

Audio missing in EE mode
Place VCR in stop mode
Check IC501-17 (Clock) 18 (Data)
No
After check IC601 See page 2-4 syscon part
Yes
Tuner
line
Supply RF signal to RF input jack and set to tuner mode
Supply audio signal (500mVrms) to audio input jack line and set to line mode
Check IC501-43 (L) 41 (R)
Check audio line in jack
No
Check line jack
Yes
Yes
Yes
Check IC501-5(L), 1(R)
No
Check R503, R504, C502
Audio out IC501-35 (Conv. out) 11 (L), 13 (R)
No
Check CTL IC501-10:Low
No
After check IC607-4 See syscon part
Yes
Yes
Change IC501
Check I/O block

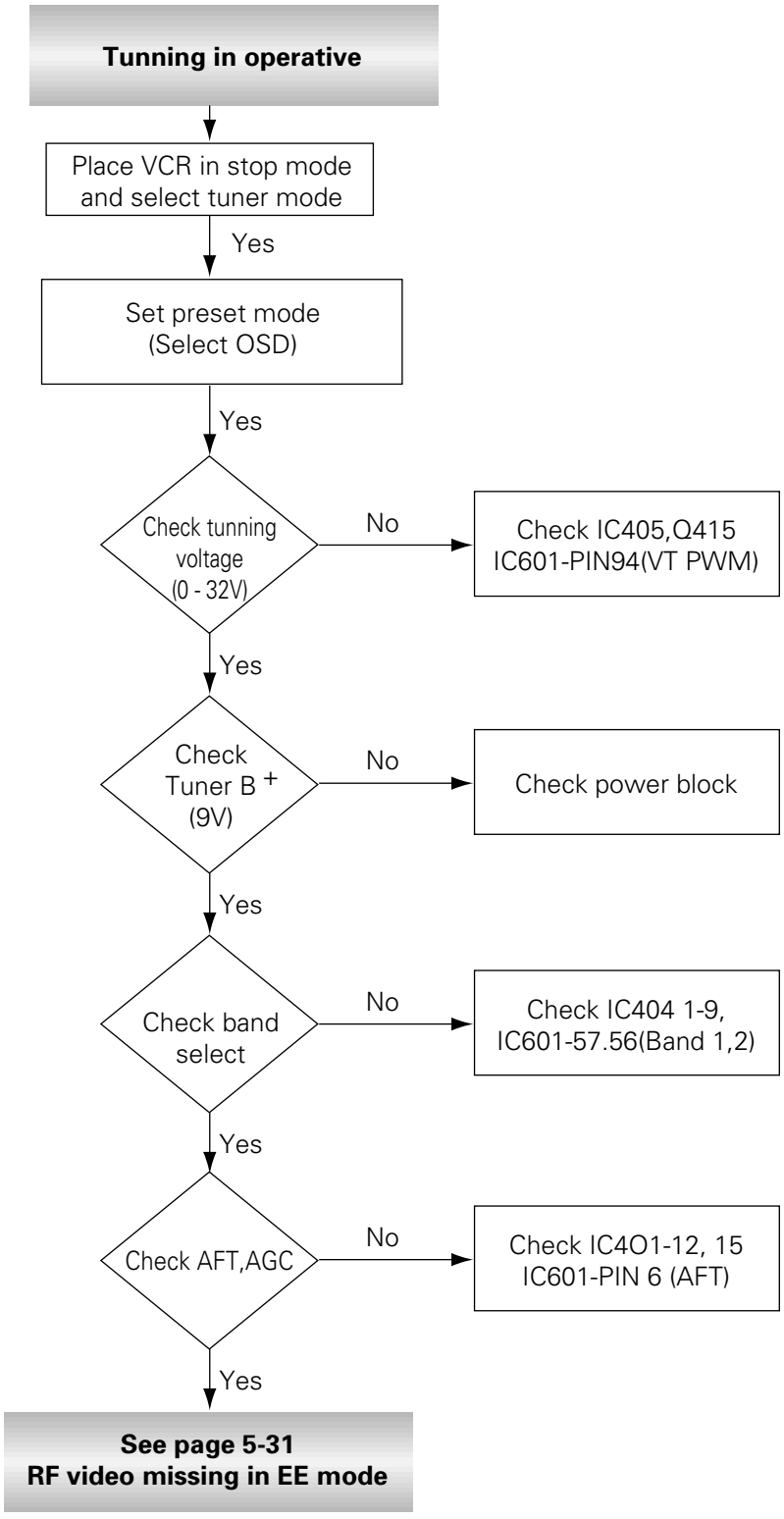
(HI-FI)

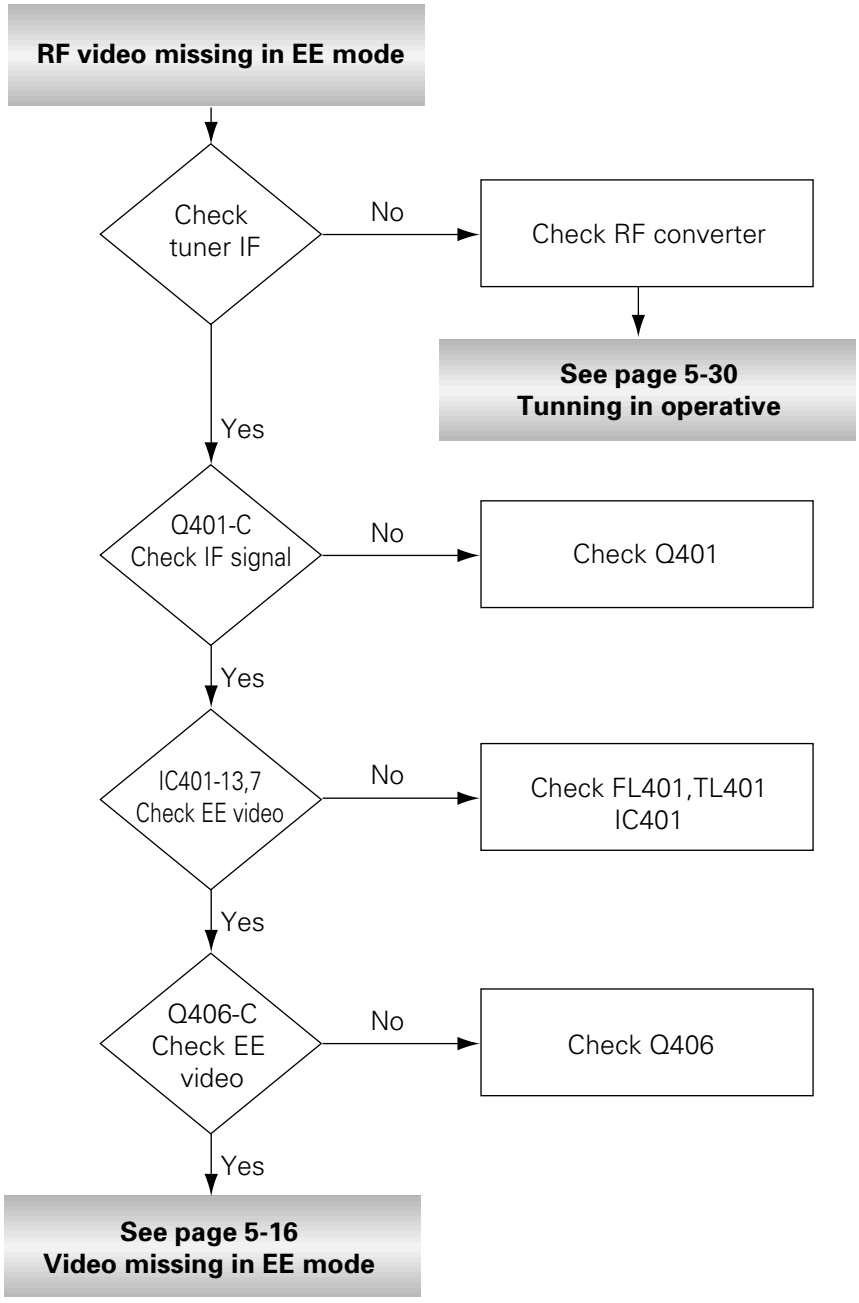

Audio missing in play mode
Place VCR in
play mode (Select Hi-Fi mode)
Check
IC501-25
PB FM
No
F
Yes
Check
IC501-10:Low
No
After check
IC607-4
See syscon part
Yes
Same Check
EE Mode

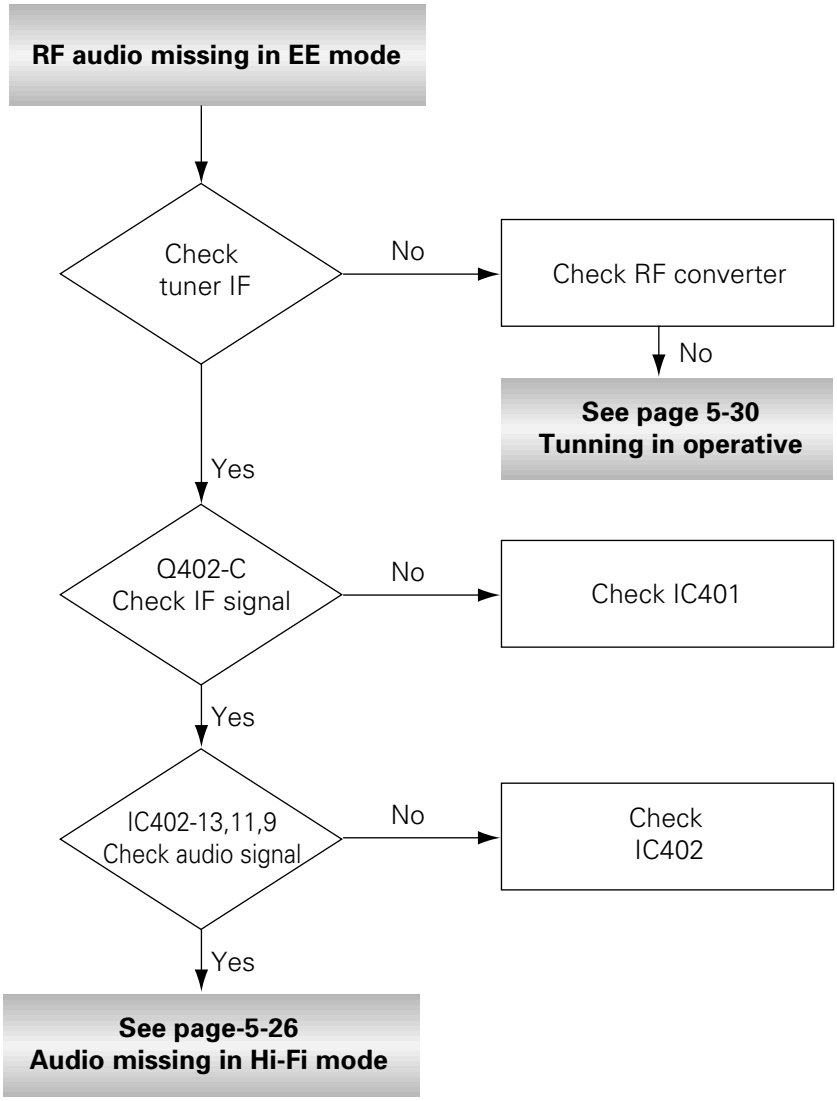

F
Check
IC502-3
PB FM Out
No
Check
IC502-2
A.H'D SW
No
Check
IC601-23
See syscon part
Yes
Yes
Check
C544, R532, R530
Check
IC502-14
PC 5V
No
Check
the PC 5V line
Yes
Check
C518, C535 And
Replace IC502

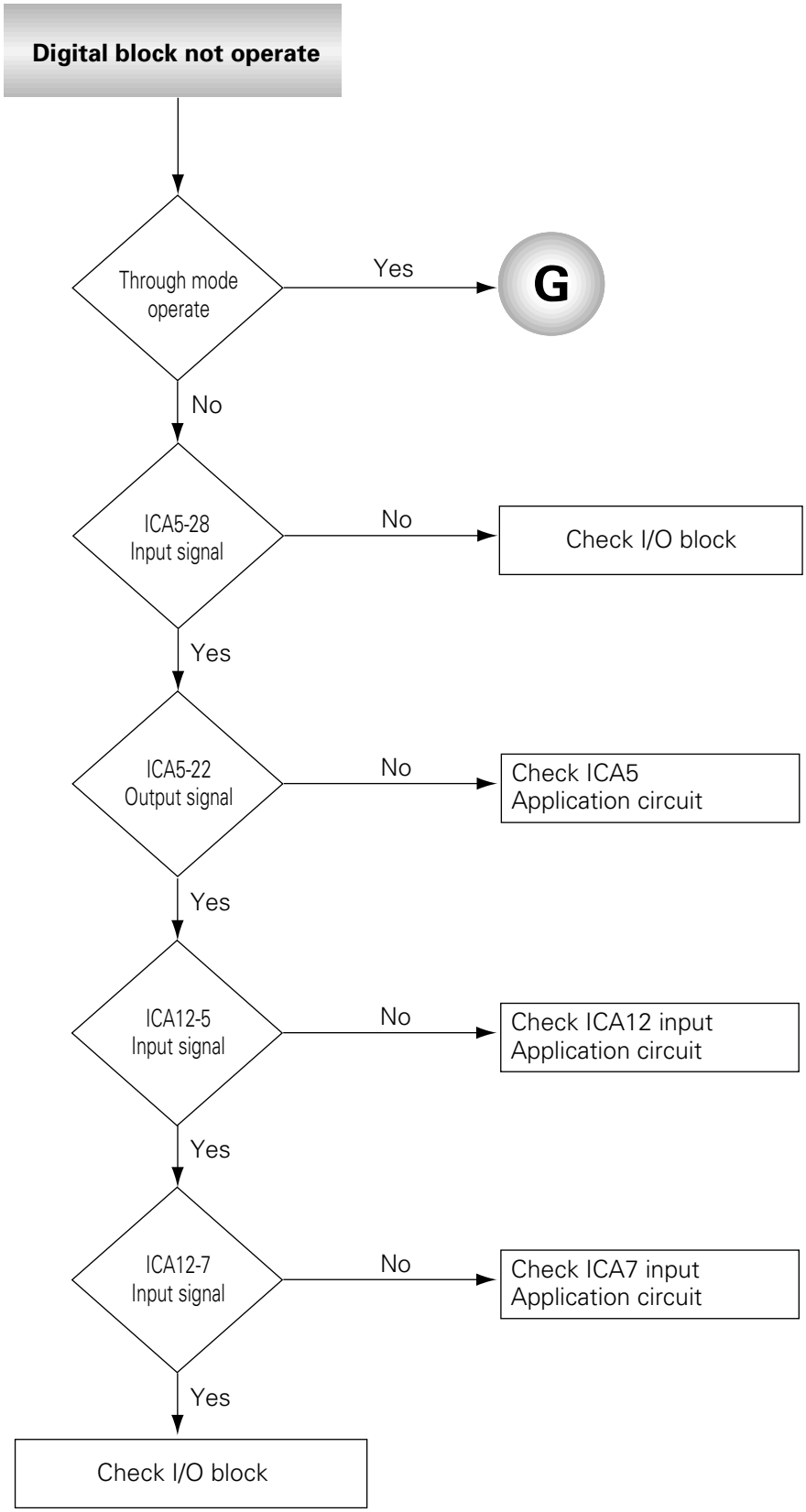
(HI-FI)

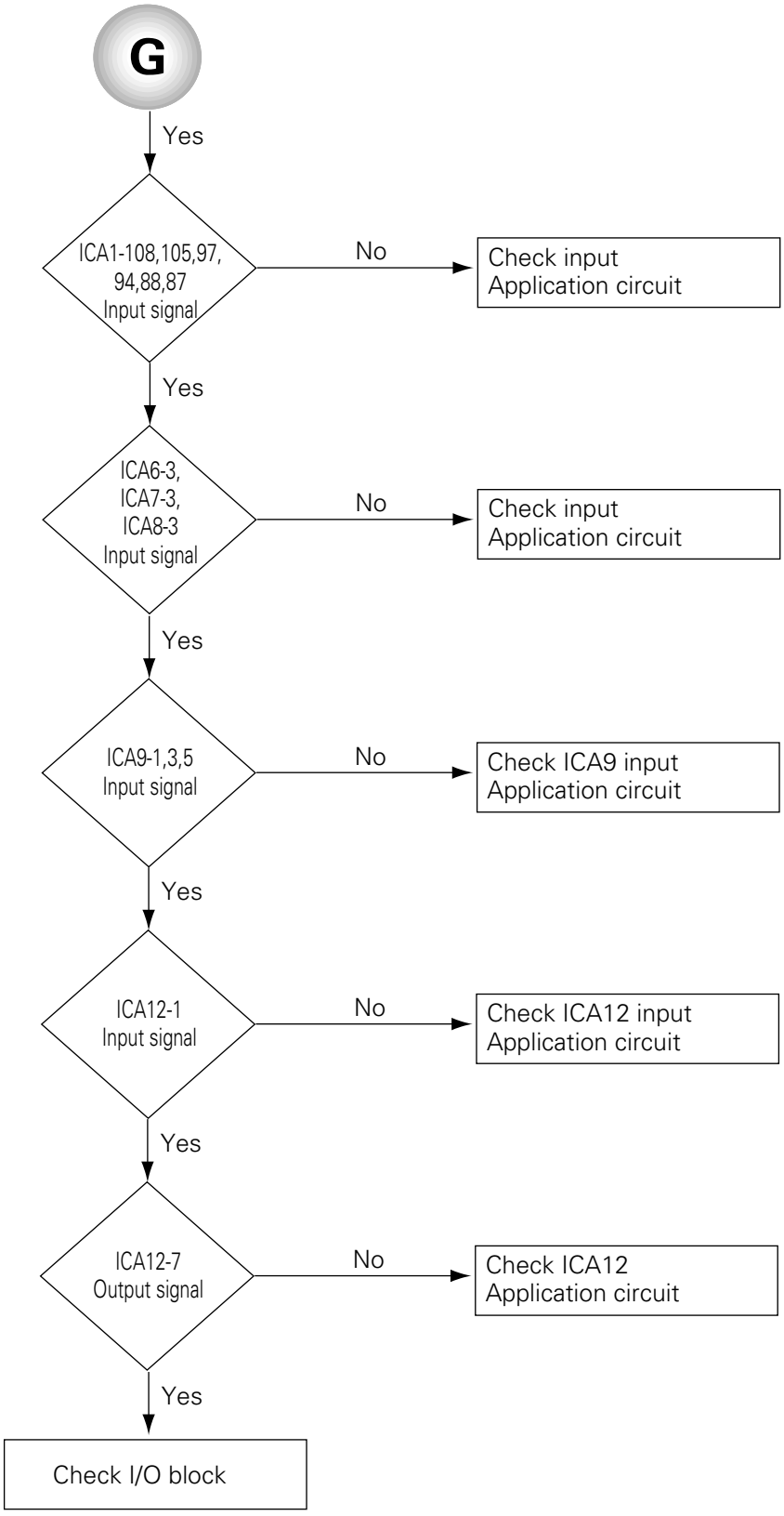

Audio missing in record mode
Check audio missing in EE mode
No
Check audio missing in EE mode
Yes
Place VCR in record mode
Yes
Check IC501-22 Rec FM
No
Check OSC part
Yes
Check Hi-Fi preamp IC IC502-9 Rec FM in
No
Check C542, R529, R531
Yes
Check IC502-15 Rec FM Out
No
Check IC502-14 PC 5V
No
Check PC 5V Line
Yes
Change CN301-8 and cylinder ass'y
Yes
Change IC502


Tunning in operative
Place VCR in stop mode and select tuner mode
Yes
Set preset mode (Select OSD)
Yes
Check tunning voltage (0 - 32V)
No
Check IC405,Q415 IC601-PIN94(VT PWM)
Yes
Check Tuner B + (9V)
No
Check power block
Yes
Check band select
No
Check IC404 1-9, IC601-57.56(Band 1,2)
Yes
Check AFT,AGC
No
Check IC4O1-12, 15 IC601-PIN 6 (AFT)
Yes
See page 5-31 RF video missing in EE mode


RF video missing in EE mode
Check tuner IF
No
Check RF converter
See page 5-30 Tunning in operative
Yes
Q401-C Check IF signal
No
Check Q401
Yes
IC401-13,7 Check EE video
No
Check FL401,TL401 IC401
Yes
Q406-C Check EE video
No
Check Q406
Yes
See page 5-16 Video missing in EE mode


RF audio missing in EE mode
Check tuner IF
No
Check RF converter
No
See page 5-30 Tunning in operative
Yes
Q402-C Check IF signal
No
Check IC401
Yes
IC402-13,11,9 Check audio signal
No
Check IC402
Yes
See page-5-26 Audio missing in Hi-Fi mode


Digital block not operate
Through mode operate
Yes
G
No
ICA5-28 Input signal
No
Check I/O block
Yes
ICA5-22 Output signal
No
Check ICA5 Application circuit
Yes
ICA12-5 Input signal
No
Check ICA12 input Application circuit
Yes
ICA12-7 Input signal
No
Check ICA7 input Application circuit
Yes
Check I/O block


G
Yes
ICA1-108,105,97,
94,88,87
Input signal
No
Check input
Application circuit
Yes
ICA6-3,
ICA7-3,
ICA8-3
Input signal
No
Check input
Application circuit
Yes
ICA9-1,3,5
Input signal
No
Check ICA9 input
Application circuit
Yes
ICA12-1
Input signal
No
Check ICA12 input
Application circuit
Yes
ICA12-7
Output signal
No
Check ICA12
Application circuit
Yes
Check I/O block

7. Exploded View and Parts List

		Page
7-1	Cabinet Assembly	7-2
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7-3	Mechanical Parts (Bottom Side)	7-6
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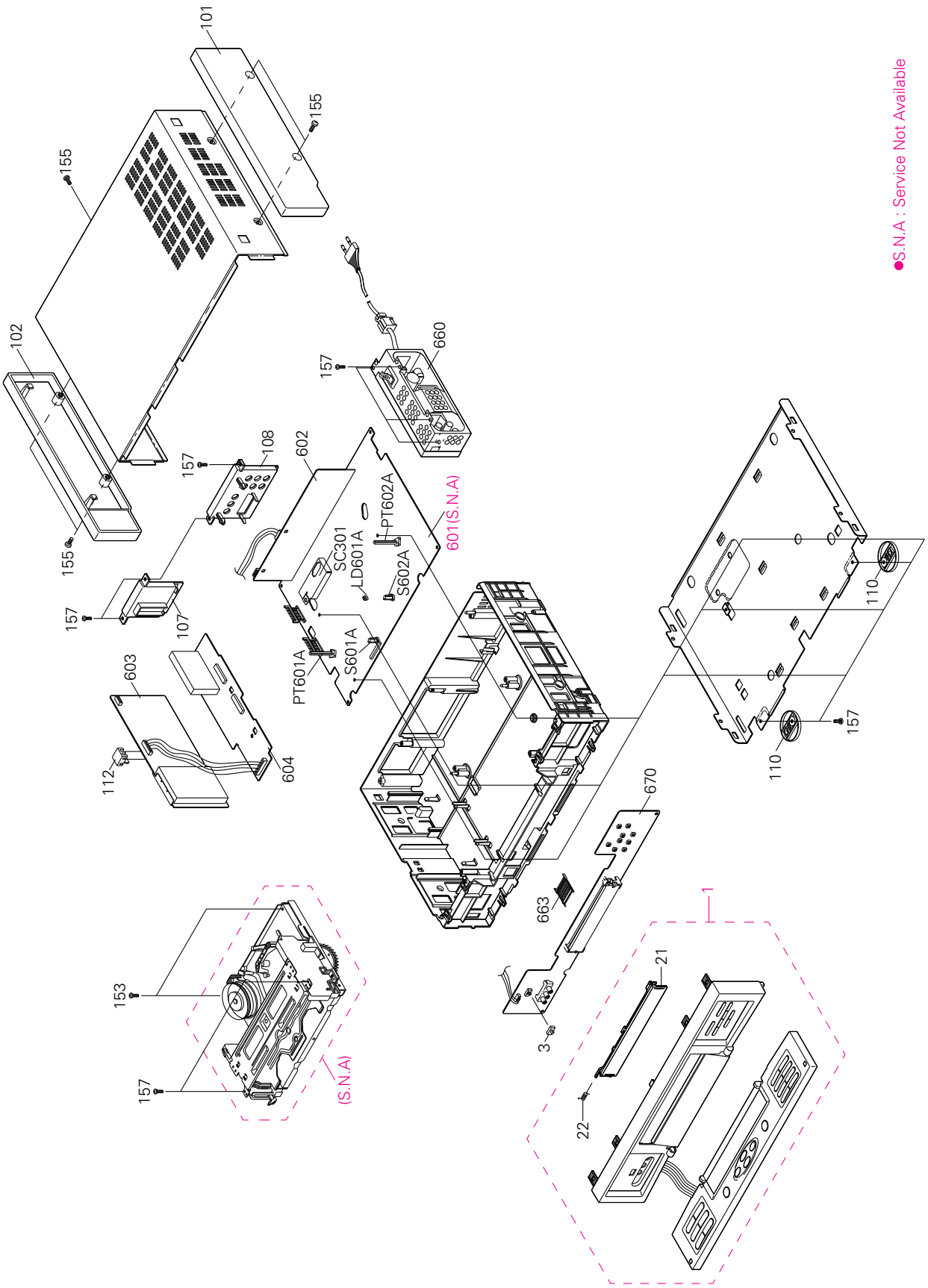
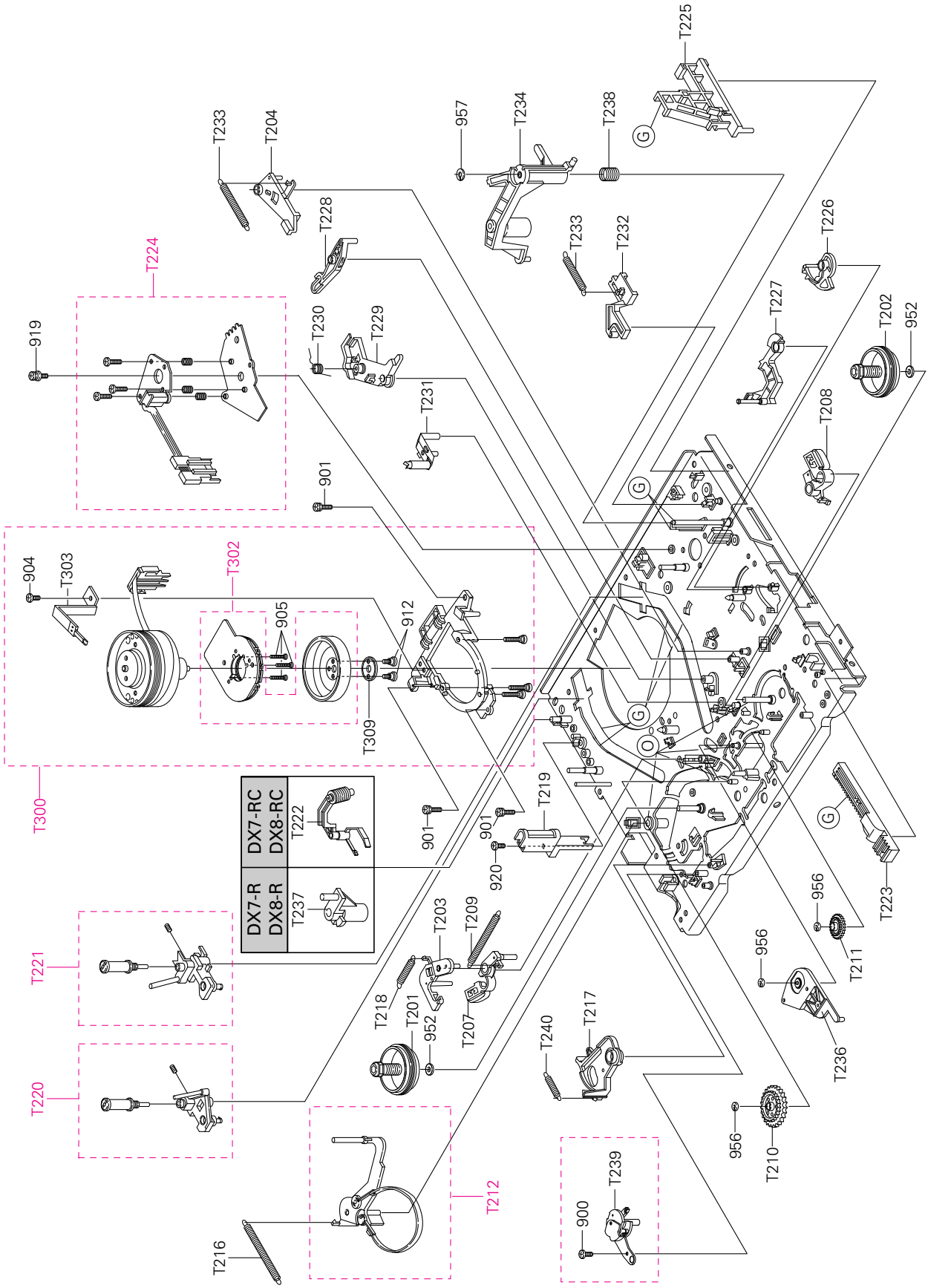
7-5	Remote Control Ass'y	7-10

7-1 Cabinet Assembly



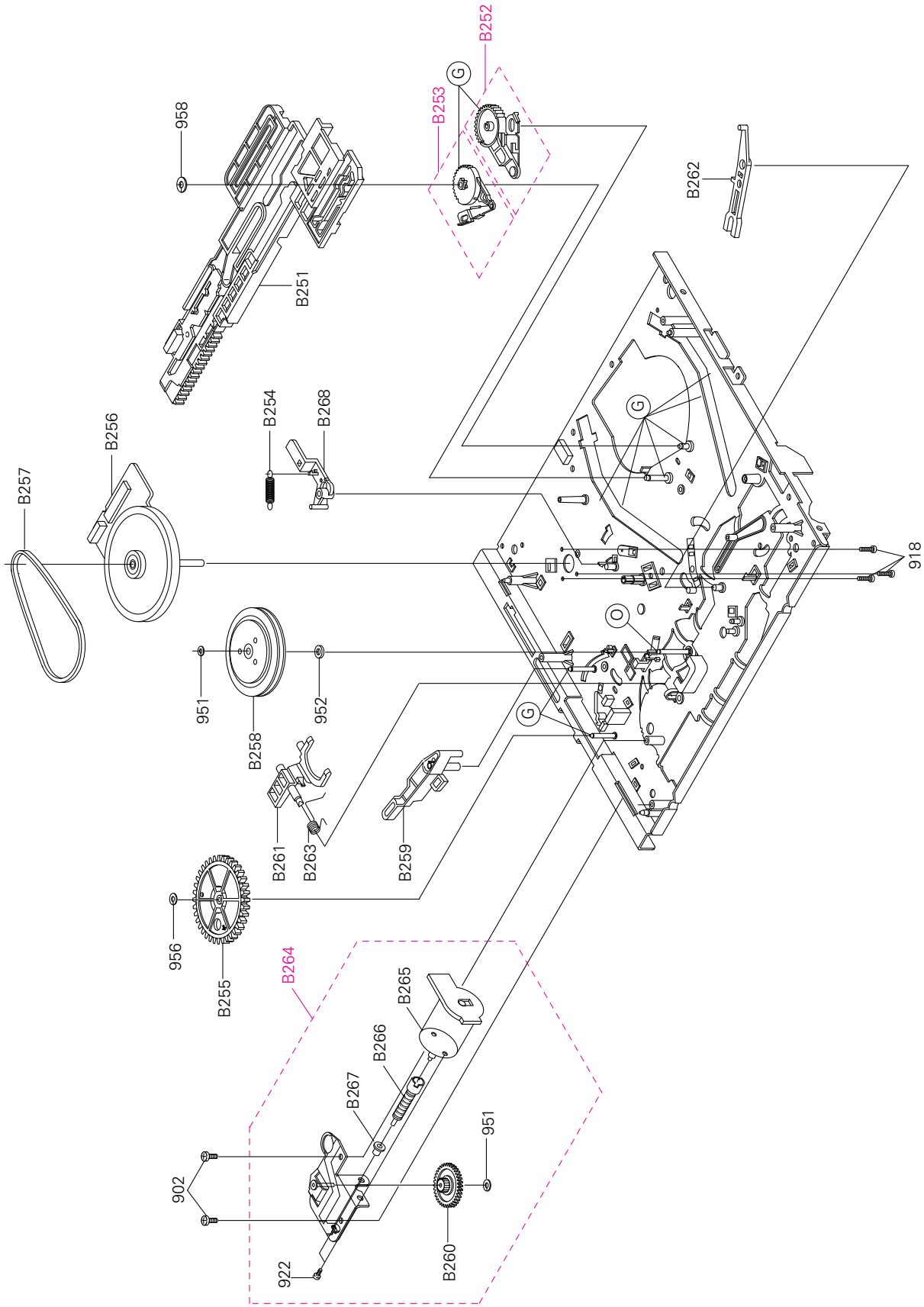
Loc. No	Part No	Description and Specification	Remark
-	DO NOT ORDER	ASSY-FULL DECK(DX8-R)	(S.N.A)
1	AC98-11213E	ASSY-PANEL FRONT;SV-A400W/SEG,W/WIDE 2	
3	64084-0359-01	KNOB-SLIDE;ABS94HB BLK SV-300W	
21	AC64-50905A	DOOR-CASSETTE;SV-300W-2,ABS 94,HB,-,-,D/	
22	AC61-62003A	SPRING;-,SUS304,(GE/RCA),-,-,-,-	
101	AC98-12024Q	ASSY-PANEL SIDE R;SV-A400W/SEG,ABS94 HB	
102	AC98-12024P	ASSY-PANEL SIDE L;SV-A400W/SEG,ABS94 HB	
107	AC61-10998A	CONNECTOR BOARD-A;(ASSY)SV-A400W/SEG,HIP	
108	AC61-10999A	CONNECTOR BOARD-B;(ASSY)SV-A400W/SEG,HIP	
110	64123-0001-00	DECORATION-LEG;ABS94HB GLD SV-7100	
112	AC61-20237A	HOLDER-PCB;ABS94HB,T2,BLK,23.1*18.5,-,-	
153	AC60-12126A	SCREW-BH;-,BH,-,4*12,FE,FZY,-,-,-	
155	AC60-12134A	SCREW-TAP BH;-,BH,-,2-4X16,-,FE	
157	AC60-10063A	SCREW-TAPTITE;BH,+,-,M3,L12,ZPC3,SWRCH18	
601	DO NOT ORDER	ASSY-MAIN;SV-4000W,WORLD WIDE 2	(S.N.A)
602	AC93-10825C	ASSY-I/O;SV-4000W,WORLD WIDE 2	
603	AC93-10825E	ASSY-DIGITAL;SV-4000W,WORLD WIDE 2	
604	AC93-10825D	ASSY-IF(TUNER);SV-4000W,WORLD WIDE 2	
660	AC93-10823U	ASSY-SMPS;SV-4000W,WORLD WIDE 2	
663	3711-002603	CONNECTOR-HEADER;NOWALL,20P,1R,1.5MM,STR	
670	AC93-10825A	ASSY-TIMER;SV-4000W,WORLD WIDE 2	
LD601A	AC61-22345A	HOLDER-LED;POM,-,-,-,-,-	
PT601A	AC61-22344A	HOLDER-PHOTO;POM,-,-,-,-,-	
PT602A	AC61-22344A	HOLDER-PHOTO;POM,-,-,-,-,-	
S601A	AC61-22321A	HOLDER-TR;POM,-,-,-,-,-	
S602A	AC61-22321A	HOLDER-TR;POM,-,-,-,-,-	
SC301	AC98-12023J	ASSY-SH/CASE TOP;SV-A140F,IS-PAL ASSY S/	

7-2 Mechanical Parts (Top Side)



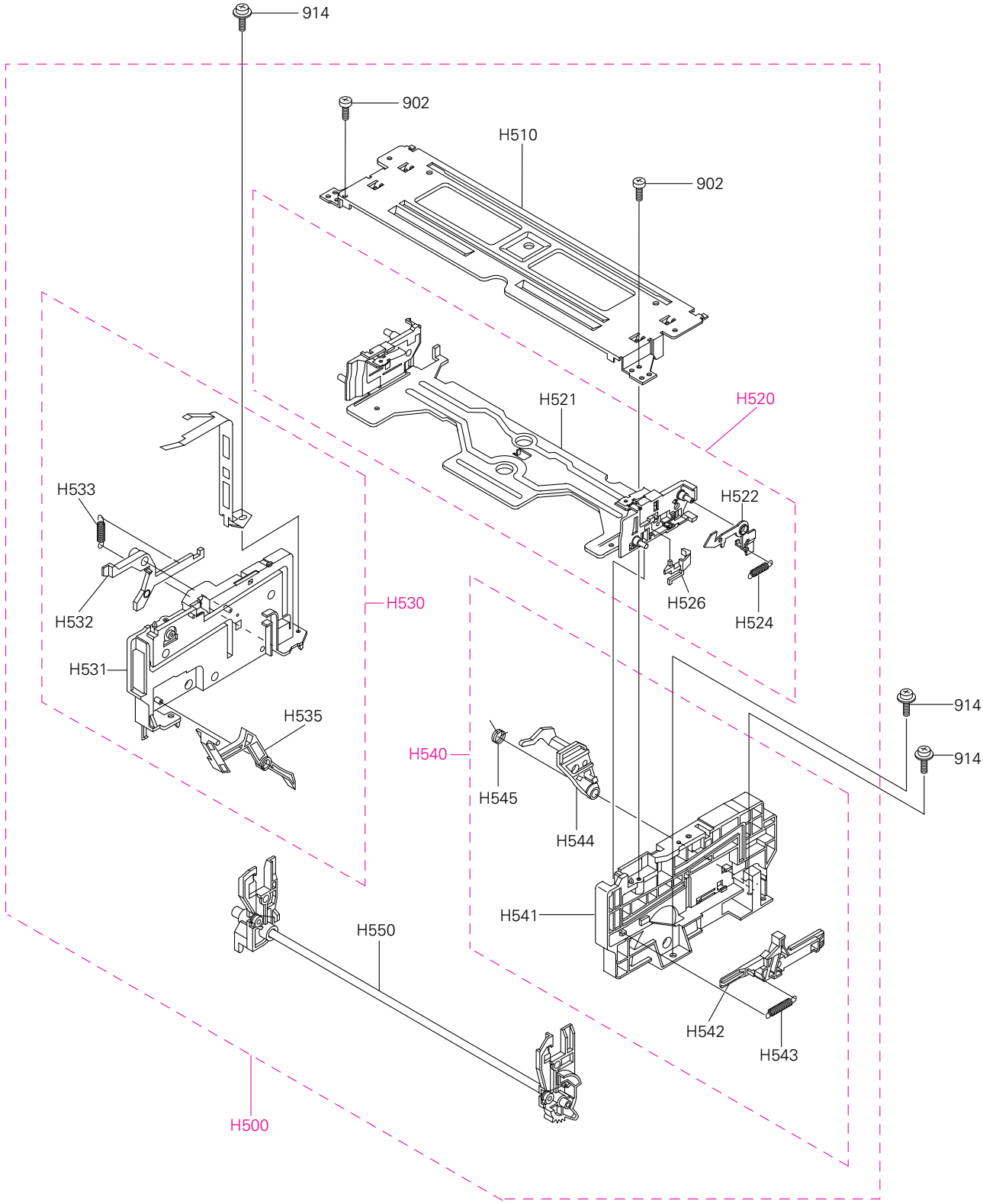
Loc. No	Part No	Description and Specification	Remark
900	AC60-12091A	SCREW-MACHINE;FP,BH,-,M3,L4,SWRCH10A,YEL ROB	
901	AC60-10012A	SCREW-MACHINE;BH,+,M3,L8,-,FE,-,-,-	
904	AC60-12125A	SCREW-PH;-,-,-,M3X6 TAP TITE,-,-,-,-,-	
905	AC60-12096A	SCREW-MACHINE;FP,PH,-,M2.6,X10,SWRCH1-A,YEL	
912	67094-604-710	SCREW-DAMPER;M2.0X7.0 SWCM 10(MFZN2-C)	
919	AC60-10004A	SCREW-MACHINE;BH,+,M3,L8,ZPC,SWRCH18A,-,-,-	
920	AC60-10007A	SCREW-TAPPING;BH,+,M2.6,L12,-,SWRCH18A,-,-,-	
952	AC60-30018A	WASHER-PLAIN;PLAIN,M3.2,D6,T0.5,POLYSLIDER,	
956	AC60-30007A	WASHER-SLIT;PLAIN,ID2.5,OD7,T0.5,SPC1,-,-	
957	AC60-30008A	WASHER-SLIT;-,ID3.5,OD9,T0.5,SPC1,-,-	
T201	AC66-10023A	REEL-DISK L ASSY;POM,-,PACKAGE,X-5,-	
T202	AC66-10022A	REEL-DISK R (ASSY);POM,-,PACKAGE,X-5,-	
T203	AC66-30474A	BRAKE-SUB L;-,PBT,-,-,-,X-5/IS	
T204	AC66-30148A	BRAKE SUB R-ASSY;PBT,-,-,-,X5,-	
T207	AC66-30475A	BRAKE-MAIN L ASS'Y;-,POM+PELT,-,-,-,X-5/IS	
T208	AC66-30476A	BRAKE-MAIN R ASS'Y;-,POM+PELT,-,-,-,X-5/IS	
T209	AC61-60112A	SPRING- BRAKE MAIN;ES,SUS304WPB,PI0.35,ID2.8,OD4.	
T210	AC66-20073A	GEAR RELAY S-ASSY;-,PEBAX,M0.5,M48,SP,X5,-	
T211	AC66-20037A	GEAR- RELAY T;PEBAX7033,X-5,Z39,GEAR-SPUR,D1	
T212	AC66-30073A	ARM-TENSION ASSY;-,-,-,CKD,DX5-R,-	
T216	AC61-60119A	SPRING TENSION;ES,SWPB,PI0.35,ID2.1,L33(OD3.8),-,	
T217	AC66-30470A	LEVER-REC S/W;-,PBT #3300,T4.0,L32,-,(X-5/IS	
T218	AC61-62017A	SPRING-SUB BRAKE L;ES,SUS304,PI0.23,D3.5,L14.8,-,	
T219	AC33-10003P	HEAD- MAGNET F/E;MH131S,-,-,-,L51.05XW7.4XH12.3	
T220	AC66-82050A	SLIDER-G/R ASSY(S);-,-,-,-,X-5	
T221	AC66-82059A	SLIDER-G/R ASSY T;-,-,-,-,X-7(VW-31H)	
T222	AC33-10002E	HEAD-CLEANER;-,-,-,-,-,X-5	(OPTIONAL)
T223	AC66-20065A	RACK-HOUSING;L74.29,POM M90-44,BLK,M1,3.14,	
T224	AC33-10215A	HEAD-ACE ALL ASSY;-,X-7,-,-,-	
T225	AC66-80005A	SLIDER-PINCH;POM(M90-44),T2,L54.35,NAT,DX-5	
T226	AC66-30014A	LEVER-REVIEW;ZYTEL(70G-43L),T3.8,-,PCD25.6,	
T227	AC66-30099A	ARM REVIEW CKD;-,-,-,-,DX5-RV,-	
T228	AC66-30013A	LEVER-PINCH CAM;PBT 6300T,-,L45,W9,X-5,-	
T229	AC66-30003A	LEVER PINCH COUP;PBT 3300,T7.5,L45.25,-,-,X-5	
T230	AC61-60116A	SPRING- PINCH COMP;TS,SWPB,PI1.0,D6,L38(OD8),-,-	
T231	AC67-32001A	PRISM-LED;PMMA,D5,IF-850,-,-,-	
T232	AC66-82049A	SLIDER-PUSH;LUPOX 2150,T2,-,NTR,-	
T233	AC61-62016A	SPRING-SLIDE PUSH;ES,SUS304WPB,PI0.55,D3.55,L24.	
T234	AC59-90001B	UNIT-PINCH ROLLER;X-5,-,YAMAUCHI	
T236	AC66-10010A	IDLER-ASSY;PACKAGE,-,X-5,-	
T237	AC61-40054A	STOPPER-TAPE;POM M90-44,OD7,T1.5,NTR,X-5,-	(OPTIONAL)
T238	AC61-60132A	SPRING ARM PINCH;CS,SUS304WPB,PI0.4,D7.1,OD7.9,	
T239	AC66-30132A	LEVER JOG-ASSY;-,-,-,-.X5,-	(DX8-R/RC ONLY)
T240	AC61-60505A	SPRING-REC S/W;-,ES,SUS304 WPB,PI0.29,PI3.5,-	
T300	AC96-10475W	ASSY-CYLINDER;-,CX5-H6P/SEMA/W/DLC	
T302	AC31-12001M	MOTOR-CYLINDER;E20XL03,-,-	
T303	AC33-12004S	HEAD-BRUSH(ASSY);SECC20/20+CARBON,-,-,-,-	
T309	AC73-12001A	RETRINER-RUBBER(ASSY);SECC+SILICON,-,-,-	

7-3 Mechanical Parts (Bottom Side)



Loc. No	Part No	Description and Specification	Remark
902	AC60-10051A	SCREW-TAPPING;BH,-,-,M3,L8,FZY	
918	AC60-10006A	SCREW-MACHINE;BH,+I90,M2.6,L7,ZPC,SWRCH18A,-	
922	67008-130-171	SCREW PH;+M3X3 FE FZY	
951	AC60-30025A	WASHER-SLIT;-,ID2.5,OD5.0,T0.5,POLY SLIDE,	
952	AC60-30018A	WASHER-PLAIN;PLAIN,M3.2,D6,T0.5,POLYSLIDER,	
956	AC60-30007A	WASHER-SLIT;PLAIN,ID2.5,OD7,T0.5,SPC1,-,-	
958	AC60-30028A	WASHER-SLIT;-,D2.5,D9.0,T0.5,NUMIRROR,-,-	
B251	AC66-80003A	SILDER- MAIN;PBT2002K,T12.4,L206.2,NAT	
B252	AC66-20019A	GEAR-LOADING L ASSY;-,-,-,PACKAGE,-,X-5,-	
B253	AC66-20069A	GEAR LOADING R;-,-,-,-,-,X5,-	
B254	AC61-60115A	SPRING-BRAKE CAPSTAN;ES,SUS304WPB,PI0.4,D22,L16.1(	
B255	AC66-20004A	GEAR-MASTER;POM (M90-44),M 1,Z 60,SP,-,X-5	
B256	AC31-12001R	MOTOR-D/D CAPSTAN;DMVCMC06A,-,-	
B257	AC66-62008A	BELT-CAPSTAN;-,DLB-601,T2.8,L134,9,BLK	
B258	AC66-20066A	CLUTCH-ASSY;-,-,-,-,-,X5,-	
B259	AC66-32185A	LEVER-SLIDER PINCH;PBT,T4,NAT,-,-,-	
B260	AC66-20016A	GEAR- WORM WHEEL;POM SW-01,M0.55/M1,Z57/Z10,GEA	
B261	AC66-30011A	LEVER- SHIFT;PBT2002K,T10.9,L35,-,-,-	
B262	AC66-30012A	LEVER- IDELR CHANGE;PBT330,T3.3,L50,-,W6.0,-	
B263	AC61-60111A	SPRING-LEVER SHIFT;TS,SWPB,PI0.7,D5.5,L13.8(OD6.9	
B264	AC59-90001A	UNIT-LOADING ASSY;X-5,-,-	
B265	66823-0060-00	MOTOR-LOADING ASSY;POM+RF370C X-5	
B266	AC66-20039A	GEAR- WORM LO;PBT 2002K,-,-,-,D4.5,3,-	
B267	AC61-20224A	HOLDER SHAFT;POM M90-44,T1.25,NAT,PI5XH5.5,	
B268	AC66-30149A	BRAKE CAPSTAN-ASSY;POM,-,-,-,X5,-	

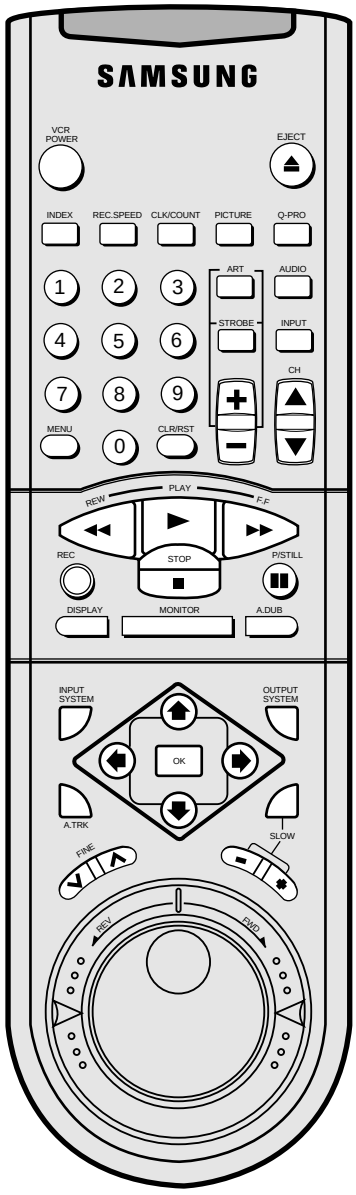
7-4 Housing Assembly



Loc. No	Part No	Description and Specification	Remark
902	AC60-10051A	SCREW-TAPPING;BH,-,-,M3,L8,FZY	
914	AC60-10067A	SCREW-TAPTITE;PWH,+,-,M3,L8,MFZN2-C,SWCH1018	
H500	AC61-82014D	HOUSING-ASSY;-,X7FL26280B,230X130X60,-,X-7	
H510	AC61-10006A	CHASSIS- UPPER;SECC 20/20,-,T1.0,BLK,-,X5,-	
H520	AC61-20932B	HOLDER-CASSETTE ASSY;-,X5FL06080A,-,-,-,X-7	
H521	AC61-20922B	HOLDER-CASSETTE;-,SECC T1.2,-,NAT,-,X-7	
H522	AC66-30018A	LEVER-LOCK R;SECC 20/20,T1.2,L44,W32,-,-	
H524	AC61-60121A	SPRING-LEVER LOCK;ES,SUS304 WPB,PI0.2,D2.6,L9.9(	
H526	AC66-30019A	LEVER-KEY CASSETTE;LUCEL N109-LD,T2.5,L20,W15.2,-	
H530	62203-0105-00	CHASSIS-SIDE L(ASSY);ABS X5FL0505A X-5	
H531	AC61-10004A	CHASSIS- SIDE L;ABS HF-380,-,T10,BLK,-,X5,BLK	
H532	AC66-30004A	LEVER- LIGHT SHUTTER;LUCEL N109-LD,T2.5,L61.7,BLK,	
H533	AC61-60142A	SPRING- LIGHT;ES,SUS304WPB,PI0.2,L11.4(OD3.7	
H535	AC66-30017A	LEVER- DOOR;LUCELN109-LD,T5,L74.3,W21.1,-,	
H540	62203-0104-00	CHASSIS-SIDE R(ASSY);ABS X5FL0505A X-5	
H541	AC61-10003A	CHASSIS- SIDE R;ABS HF-380,-,T10,BLK,-,X5,BLK	
H542	AC66-80008A	SLIDER DAMPER;LUCEL N109-LD,T4,L87,-,-,-	
H543	AC61-60120A	SPRING-SLIDE DAMPER;ES,SUS 304WPB,PI0.4,D3.8,L25(O	
H544	AC66-30016A	LEVER- LID OPENER;LUCEL N109-LD,T5.0,L34.7,W16.6	
H545	AC61-60123A	SPRING-LID OPENER;TS,SWPB,PI0.55,D8.9,L15(OD10),	
H550	61403-0073-00	SHAFT-ARM(ASSY);SUM24L X5FL0405A X-5	

7-5 Remote Control Ass'y

Loc. No	Part No	Description and Specification	Remark
	AC59-10340F	**REMOCON-ASSY;-,NR-4250,-,-,SV-4000W,S/S**	
	AC64-50919A	DOOR-BATTERY REM';-,ABS94,HB,-,-,D/GRY,N	
CT1	2401-000795	C-AL;220UF,20%,16V,GP,-,8X11.5,3.5M	
CT2	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
DT1	0407-000152	DIODE-ARRAY;MA159,80V,100MA,CX2,SOT-143,	
ICT1	AC09-10453K	IC-MCU;Z86L7608,A160,28P,QFP,A120U,8B	
JST1	AC21-12001B	JOG-SHUTTLE DAIL;-,-,-,-,-,SRGPPJ-013A	
LDT1	A4150-0168	LED-INFRARED;SI5312-H NTR 940NM/1.4V	
QT1	0501-000592	TR-SMALL SIGNAL;2SD1781K-QR,NPN,200MW,SO	
RT1	2007-000034	R-CHIP;1ohm,5%,1/8W,DA,TP,3216	
RT2	2007-000593	R-CHIP;22ohm,5%,1/10W,DA,TP,2012	
RT3	2007-000477	R-CHIP;1Mohm,5%,1/10W,DA,TP,2012	
RT7	2007-000308	R-CHIP;10ohm,5%,1/10W,DA,TP,2012	
XT1	B1283-0036	RESONATOR-CERAMIC;8MHZ EFOEC8004T4 3/CN	



8. Electrical Parts List

Loc.No	Part No	Desc and Spec	Remark
660	**AC93-10823U**	**ASSY-SMPS;SV-4000W,WORLD WIDE 2**	
BD01	0402-000103	⚠ DIODE-BRIDGE;D2SBA60,600V,1.5A,-	
C01	2305-001021	⚠ C-FILM,MPEF;100NF,20%,275V,TP,17.5X7X13.	
C02	2305-001021	⚠ C-FILM,MPEF;100NF,20%,275V,TP,17.5X7X13.	
C03	2201-000808	⚠ C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,TP,12X	
C04	2201-000808	⚠ C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,TP,12X	
C05	2201-000808	⚠ C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,TP,12X	
C06	2201-000808	⚠ C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,TP,12X	
C07	2401-000342	⚠ C-AL;100UF,20%,400V,WT,-,33X30,10MM	
C11	2401-000306	C-AL;100UF,20%,25V,GP,TP,6.3X11MM,2	
C12	2401-000306	C-AL;100UF,20%,25V,GP,TP,6.3X11MM,2	
C13	2301-000140	C-FILM,PEF;10NF,10%,630V,BK,16.5X9.5X5.7	
C14	2301-000365	C-FILM,PEF;1.5NF,10%,50V,TP,5.5X7X2.8MM,	
C15	2201-000915	C-CERAMIC,DISC;100PF,10%,1KV,Y5P,TP,6X5,	
C31	2401-000392	C-AL;10UF,20%,100V,WT,TP,6.3X11,2.5	
C32	2401-001134	C-AL;330UF,20%,35V,WT,TP,10X16,5MM	
C33	2401-002162	C-AL;1000UF,20%,25V,GP,TP,10X20,5MM	
C34	2401-001125	C-AL;330UF,20%,25V,WT,TP,10X12.5,5M	
C35	2401-000680	C-AL;2200UF,20%,10V,LZ,TP,12.5X25MM	
C36	2401-001125	C-AL;330UF,20%,25V,WT,TP,10X12.5,5M	
C37	2401-001902	C-AL;100UF,20%,50V,GP,-,6.3X11,2.5	
C38	2401-001902	C-AL;100UF,20%,50V,GP,-,6.3X11,2.5	
C39	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5M	
C40	2301-000383	C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM	
CN1	A6010-0407	CONNECTOR-WAFER;28-5085-009-000 BLK	
D11	0402-000387	DIODE-RECTIFIER;D1N60,600V,1A,-55TO+150C	
D12	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800MA,DO	
D13	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800MA,DO	
D14	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800MA,DO	
D15	0402-000378	DIODE-RECTIFIER;EG01C,1000V,500MA,DO-41	
D31	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800MA,DO	
D32	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800MA,DO	
D33	B4102-0050	DIODE-FR;D3L20U 200V 2.5A 35NS STICK	
D34	0404-000128	DIODE-SCHOTTKY;FMB-G14L,45V,5A,TO-220F,T	
D35	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800MA,DO	
D36	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800MA,DO	
F01	A3065-0198	⚠ FUSE;DEMKO FST 250V 2A 5X20MM S505 C HBC	
IC01	AC14-12012N	⚠ IC-S/W REGU;STR-S6707,DIP,-	
IC02	B4161-0019	⚠ PHOTO-COUPLER;PC121FY	
IC03	AC14-12006D	⚠ IC;KA431Z,TO-92,TAPING	
L01	AC27-32001E	⚠ COIL-LINE FILTER;SHL030,25MH,1.5,STICK,-	
L02	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,	
L03	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L04	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L05	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
PT01	AC26-20120G	⚠ TRANS-SWITCHING;-,100-240V,WORLD,EER3531	
PWC	AC39-10200D	⚠ POWER-CORD;-,KJP-140(0.5MH),H033VVH2-F,1	
R01	2006-000261	R-CEMENT;2.7OHM,10%,2W,CB,BK,7.5X11X20.	
R11	2004-000801	R-METAL;33Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R12	2004-000801	R-METAL;33Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R13	2004-000801	R-METAL;33Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R14	2004-001214	R-METAL;7.5OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R15	2003-000313	R-METAL OXIDE;47OHM,5%,2W,AD,TP,6X16MM	
R16	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R17	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc.No	Part No	Desc and Spec	Remark
R18	2003-000119	R-METAL OXIDE;0.68OHM,5%,2W,AE,TP,6X16MM	
R20	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R21	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R22	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R23	2001-000458	R-CARBON;2.2OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R24	2006-001003	R-CEMENT;120KOHM,5%,5W,CB,BK,13X9X25MM	
R31	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R32	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R33	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R34	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R35	2004-000459	R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.8x3.2m	
R36	2003-000148	R-METAL OXIDE;100OHM,5%,2W,AE,TP,6X16MM	
VA01	1405-000186	⚠ VARISTOR;470V,4500A,17X12MM,TP	
VA02	1405-000186	⚠ VARISTOR;470V,4500A,17X12MM,TP	
601	**AC93-10824Z**	**ASSY-MAIN;SV-4000W,WORLD WIDE 2**	
POWER PARTS			
C101	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C102	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C103	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C104	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C105	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C106	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C107	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C108	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C109	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C111	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C112	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C113	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
CN101	A6010-0406	CONNECTOR-WAFER;18-5085-009-000 BLK	
CN102	AC39-20817L	LEAD CONNECTOR-ASSY;-,5264-03,5395-03,3P	
D101	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D102	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D103	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D104	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D105	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D106	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D107	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D108	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
IC102	AC14-12001E	IC;KA7809,-,-	
IC103	B4008-1011	IC-VOLT REGU;PQ12RF11 SIP 4-LEAD	
IC104	1203-000294	IC-POSI.FIXED REG.;7808,TO-220,3P,-,PLAS	
Q101	0504-000116	TR-DIGITAL;KSR1001,NPN,300MW,4.7K-4.7K,T	
Q102	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,	
Q104	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q105	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q106	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K-22K,TO-	
Q107	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,	
R101	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R102	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R103	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R105	2004-001096	R-METAL;560ohm,5%,1/4W,AA,TP,2.4X6.4mm	
R106	2004-000571	R-METAL;220ohm,5%,1/4W,AA,TP,2.4x6.4mm	
R107	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R108	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R109	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	

Loc.No	Part No	Desc and Spec	Remark
ZD101	0403-000557	DIODE-ZENER;MTZ5.1C,5.1V,5.09-5.37V,500M	
SYSTEM CONTROL/SERVO PARTS			
C601	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C602	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C603	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C604	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C605	2203-000363	C-CERAMIC,CHIP;150PF,5%,50V,NPO,TP,2012,	
C606	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C607	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C608	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C609	2203-001679	C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2	
C610	2203-001679	C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2	
C611	2203-000533	C-CERAMIC,CHIP;2.7nF,10%,50V,X7R,TP,2012	
C612	2203-000363	C-CERAMIC,CHIP;150PF,5%,50V,NPO,TP,2012,	
C613	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C614	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C615	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C616	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
C617	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
C618	2203-001702	C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,	
C619	2203-001246	C-CERAMIC,CHIP;82PF,5%,50V,NPO,TP,2012,-	
C620	2203-001246	C-CERAMIC,CHIP;82PF,5%,50V,NPO,TP,2012,-	
C622	2203-001608	C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2	
C623	2203-000392	C-CERAMIC,CHIP;15PF,5%,50V,SL,TP,2012,-	
C624	2203-000392	C-CERAMIC,CHIP;15PF,5%,50V,SL,TP,2012,-	
C625	2203-000392	C-CERAMIC,CHIP;15PF,5%,50V,SL,TP,2012,-	
C626	2203-000392	C-CERAMIC,CHIP;15PF,5%,50V,SL,TP,2012,-	
C627	2203-001608	C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2	
C628	2203-001608	C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2	
C629	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5	
C630	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5M	
C631	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C633	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C634	2409-000108	C-EDL;0.1F,-,5.5V,-,TP,12.5X11.5X5,5	
C635	2401-000199	C-AL;1000UF,20%,6.3V,GP,TP,10X12.5,	
C636	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C637	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C638	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C639	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C640	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C641	2401-000753	C-AL;220NF,20%,50V,GP,TP,3X5,5	
C642	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C643	2401-001164	C-AL;33UF,20%,16V,GP,-,5X11,2MM	
C644	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C645	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C647	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C648	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C649	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C650	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C651	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C652	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C653	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C654	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C660	2202-000850	C-CERAMIC,MLC-AXIAL;2.2NF,30%,16V,Y5R,TP	
C661	2202-000850	C-CERAMIC,MLC-AXIAL;2.2NF,30%,16V,Y5R,TP	
C663	2203-001608	C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2	
C681	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C682	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C683	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3	
C684	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5	

Loc.No	Part No	Desc and Spec	Remark
C696	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C697	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C698	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
CN601	3710-000546	CONNECTOR-SOCKET;20P,1R,1.5MM,ANGLE,SN	
CN602	3711-002445	CONNECTOR-HEADER;BOX,2P,2R,1.5MM,STRAIGH	
CN603	3711-003105	CONNECTOR-HEADER;BOX,10P,2R,2.0MM,STRAIG	
CN604	3711-002444	CONNECTOR-HEADER;BOX,6P,2R,2.0MM,STRAIGH	
CN606	3711-002195	CONNECTOR-HEADER;NOWALL,14P,1R,2.0MM,STR	
CN607	3711-002195	CONNECTOR-HEADER;NOWALL,14P,1R,2.0MM,STR	
D603	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D605	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D606	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D607	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D608	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D609	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D610	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D611	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D612	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D6D02	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
IC601	AC09-10454Y	IC-MCU;HD6433977RAF,A400W,1024,8,SV-A	
IC602	AC14-12003K	IC;KA8301(N.M),-,-	
IC603	AC14-12001K	IC;KA324,-,-	
IC604	AC14-12006C	IC;KA7533,DIP,-	
IC605	1103-001020	IC-EEPROM;24LC04,4Kx8BIT,DIP,8P,300MIL,-	
IC606	AC14-12009E	IC;HCF4094BE/TC4094BP,DIP,LOGIC	
IC607	AC14-12009E	IC;HCF4094BE/TC4094BP,DIP,LOGIC	
IC609	AC14-12012Q	IC-VOLG REGU;PQ05RF11,SIP,-	
L601	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L602	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L603	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L604	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,	
L606	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,	
L607	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
LD601	0601-000495	LED-IR;ROUND,3MM,150MW,6V,950NM,BK	
PT601	0604-000188	PHOTO-INTERRUPTER;TR,-,-,DIP-4,TR	
PT602	0604-000188	PHOTO-INTERRUPTER;TR,-,-,DIP-4,TR	
Q601	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q602	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q603	0501-000231	TR-SMALL SIGNAL;2SD1468SQ,NPN,300MW,TO-9	
Q604	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO-92,T	
Q605	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q606	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
R601	2007-001001	R-CHIP;510ohm,5%,1/10W,DA,TP,2012	
R602	2007-000804	R-CHIP;36Kohm,5%,1/10W,DA,TP,2012	
R603	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R604	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R605	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R606	2007-000658	R-CHIP;27ohm,5%,1/10W,DA,TP,2012	
R607	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R608	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R609	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R610	2001-000282	R-CARBON;10KOHM,1%,1/8W,AD,TP,1.8X3.2MM	
R6100	2007-000710	R-CHIP;3.9Kohm,5%,1/10W,DA,TP,2012	
R6105	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R611	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6116	2001-001031	R-CARBON;91KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6117	2007-001024	R-CHIP-HARNESS;560KOHM,5%,1/10W,DA,TP,20	
R6119	2007-001039	R-CHIP;56Kohm,5%,1/10W,DA,TP,2012	
R612	2001-000282	R-CARBON;10KOHM,1%,1/8W,AD,TP,1.8X3.2MM	
R6124	2007-000738	R-CHIP;30Kohm,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Desc and Spec	Remark
R6125	2001-000633	R-CARBON;30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R613	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6131	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6132	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6133	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6134	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6135	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R614	2007-000565	R-CHIP;220Kohm,5%,1/10W,DA,TP,2012	
R6140	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6141	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R615	2007-000565	R-CHIP;220Kohm,5%,1/10W,DA,TP,2012	
R616	2001-000832	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R617	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R618	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R619	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R620	2001-000832	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R621	61048-177-563	R-CARBON;RD 1/8 T 563-J	
R622	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R623	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R624	2007-000282	R-CHIP;100Kohm,5%,1/10W,DA,TP,2012	
R625	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R626	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R627	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R628	2007-000565	R-CHIP;220Kohm,5%,1/10W,DA,TP,2012	
R629	2007-000565	R-CHIP;220Kohm,5%,1/10W,DA,TP,2012	
R630	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R631	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R632	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R633	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R634	2007-000355	R-CHIP;12Kohm,5%,1/10W,DA,TP,2012	
R635	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R636	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R637	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R638	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R639	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R640	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R641	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R642	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R643	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R644	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R645	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R646	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R647	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R648	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R649	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R650	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R651	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
R652	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R653	2007-001039	R-CHIP;56Kohm,5%,1/10W,DA,TP,2012	
R654	2007-001039	R-CHIP;56Kohm,5%,1/10W,DA,TP,2012	
R655	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R656	2007-000703	R-CHIP;3.6Kohm,5%,1/10W,DA,TP,2012	
R657	2007-000430	R-CHIP;16Kohm,5%,1/10W,DA,TP,2012	
R658	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R659	2007-000430	R-CHIP;16Kohm,5%,1/10W,DA,TP,2012	
R660	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R661	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R662	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R663	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R664	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R665	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R666	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R667	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R668	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R669	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R670	2007-000477	R-CHIP;1Mohm,5%,1/10W,DA,TP,2012	
R671	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R672	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R673	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R674	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R675	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R676	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R677	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R678	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R679	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R680	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R681	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R682	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R684	2007-000668	R-CHIP;2Kohm,1%,1/10W,DA,TP,2012	
R685	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R686	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R687	2007-000477	R-CHIP;1Mohm,5%,1/10W,DA,TP,2012	
R688	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R689	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R690	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R691	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R692	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R693	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R694	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R695	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R696	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R697	2003-000259	R-METAL OXIDE;3.9OHM,5%,2W,AE,TP,6X16MM	
RS601	3409-000176	SWITCH-DETECTOR;30VDC,100MA,SPST,-,-	
S601	0603-000112	PHOTO-TR;NPN,35V,6V,50MA,75MW,-	
S602	0603-000112	PHOTO-TR;NPN,35V,6V,50MA,75MW,-	
SW601	AC34-22001E	SWITCH-PROGRAM;MXS00281MLB0,-,-,-,-,-,-	
XT601	2801-003293	CRYSTAL-UNIT;10MHZ,50PPM,28-AAA,16PF,50O	
XT602	64539-021-009	CRYSTAL;32.768KHZ	
AUDIO/VIDEO PARTS			
C305	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C306	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C307	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C308	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C309	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C310	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C311	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C312	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C313	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C314	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C315	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C316	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C317	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C319	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C320	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C321	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C322	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C324	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012,	
C325	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C326	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C327	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	

Loc.No	Part No	Desc and Spec	Remark
C328	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,TP,2012,2	
C329	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C330	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C331	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C332	2203-001524	C-CERAMIC,CHIP;47PF,5%,50V,NPO,TP,2012,-	
C333	2203-000840	C-CERAMIC,CHIP;390PF,5%,50V,NPO,TP,2012,	
C335	2203-000392	C-CERAMIC,CHIP;15PF,5%,50V,SL,TP,2012,-	
C336	2203-000595	C-CERAMIC,CHIP;220pF,5%,50V,NPO,TP,2012,	
C337	2203-000540	C-CERAMIC,CHIP;200PF,5%,50V,NPO,TP,2012,	
C338	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
C339	2203-000239	C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012,	
C340	2401-001965	C-AL;470NF,20%,50V,-,BK,4X7MM,1.5MM	
C3407	2301-000402	C-FILM,PEF;1NF,5%,50V,TP,5X7X2.8MM,5MM	
C3408	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C3409	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C341	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C342	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5	
C343	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C344	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C345	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C346	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C347	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C348	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C349	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C350	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C351	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C352	2401-002183	C-AL;220UF,20%,16V,GP,TP,8X9,5MM	
C353	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C355	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C356	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C357	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C358	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C359	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C360	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5	
C361	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C362	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C363	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V	
C364	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C366	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C367	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C368	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012,	
C369	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C370	B1102-0113	C-FILM;CQ 922 P 100V 473-J CQ298PVT473J	
C371	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C373	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
C374	2203-000716	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012	
C380	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C381	2203-000295	C-CERAMIC,CHIP;10pF,5%,50V,NPO,TP,2012,-	
C382	2203-000295	C-CERAMIC,CHIP;10pF,5%,50V,NPO,TP,2012,-	
C385	2203-001525	C-CERAMIC,CHIP;56PF,5%,50V,NPO,TP,2012,-	
C386	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C3A01	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C3A02	2301-000392	C-FILM,PEF;15NF,5%,50V,TP,6.5X8.5X3.2MM,	
C3A03	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C3A04	2301-000299	C-FILM,PEF;6.8NF,5%,100V,TP,5.8X12.5MM,5	
C3A05	2301-000161	C-FILM,PEF;12NF,5%,50V,TP,6.5X5.5X3.0X5,	
C3A06	2301-000408	C-FILM,PEF;2.7NF,5%,50V,TP,5.5X7X3MM,5MM	
C3A10	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C3A11	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C3A12	2301-000383	C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM	
C3A13	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
C3A15	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C3A16	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C3A17	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,TP,2012	
C3A18	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,TP,2012	
C3A19	2203-001214	C-CERAMIC,CHIP;8.2nF,10%,50V,X7R,TP,2012	
C3A21	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C3A22	2301-000217	C-FILM,PEF;220NF,5%,50V,TP,8.0X9.5X4.5X5	
C3A23	2401-001164	C-AL;33UF,20%,16V,GP,-,5X11,2MM	
C3A25	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5	
C3A26	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C3A27	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C3A28	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C3A29	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C3A30	2203-000374	C-CERAMIC,CHIP;15nF,10%,50V,X7R,TP,2012,	
C3A31	2203-000374	C-CERAMIC,CHIP;15nF,10%,50V,X7R,TP,2012,	
C5D01	B1102-0113	C-FILM;CQ 922 P 100V 473-J CQ298PVT473J	
C5D03	2203-000295	C-CERAMIC,CHIP;10pF,5%,50V,NPO,TP,2012,-	
C5D04	2301-000264	C-FILM,PEF;4.7NF,5%,50V,TP,6.5X5.5X3.0X5	
C5D05	2301-000383	C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM	
CN301	3708-000391	CONNECTOR-FPC/FC/PIC;10P,1.25MM,STRAIGHT	
CN3A01	3708-001053	CONNECTOR-FPC/FC/PIC;7P,1.25MM,STRAIGHT,	
CN3A02	3711-000371	CONNECTOR-HEADER;-,2P,1R,2MM,STRAIGHT,-	
D301	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
FL3A01	AC27-80100A	COIL-OSC;126QN-K5272YHC=K,-,AM	
FL5D01	AC27-82001C	COIL-BIAS OSC;B02,W(TOKO)VX1850,-	
IC301	1204-001056	IC-SIGNAL PROCESSOR;SS11501M,QFP,80P,-,P	
IC302	AC14-12013F	IC-LINEAR;LA7416,DIP,BULK	
IC303	1209-001024	IC-DELAY LINE;SS23378M,SOP,14P,225MIL,PL	
L301	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L303	2702-000176	INDUCTOR-RADIAL;56UH,5%,6X6.4MM	
L304	2702-000176	INDUCTOR-RADIAL;56UH,5%,6X6.4MM	
L308	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3A02	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3A03	2702-000120	INDUCTOR-RADIAL;15MH,5%,6.2X7.4MM	
L3A04	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L5D01	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q302	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO-92,T	
Q303	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO-92,T	
Q304	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q306	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q307	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q308	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q309	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q310	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO-92,T	
Q312	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q315	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q316	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,T	
Q3A01	0501-000231	TR-SMALL SIGNAL;2SD1468SQ,NPN,300MW,TO-9	
Q3A02	0501-000231	TR-SMALL SIGNAL;2SD1468SQ,NPN,300MW,TO-9	
Q3A03	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,60V,70	
Q3A04	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO-92,T	
Q3A05	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3A06	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q5D01	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,60V,70	
Q5D02	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,T	
Q5D03	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
R303	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R304	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R305	2007-000518	R-CHIP;2.7Kohm,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Desc and Spec	Remark
R306	61048-177-563	R-CARBON;RD 1/8 T 563-J	
R307	2007-000282	R-CHIP;100Kohm,5%,1/10W,DA,TP,2012	
R309	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R310	2007-000710	R-CHIP;3.9Kohm,5%,1/10W,DA,TP,2012	
R311	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R312	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R313	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
R314	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R315	2007-000710	R-CHIP;3.9Kohm,5%,1/10W,DA,TP,2012	
R316	2007-001177	R-CHIP;8.2Kohm,5%,1/10W,DA,TP,2012	
R317	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R318	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R319	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R320	2007-000221	R-CHIP;1.2Kohm,5%,1/10W,DA,TP,2012	
R321	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R322	2007-001092	R-CHIP;620ohm,5%,1/10W,DA,TP,2012	
R323	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
R324	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
R325	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R327	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
R328	2007-000221	R-CHIP;1.2Kohm,5%,1/10W,DA,TP,2012	
R329	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
R331	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R332	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R333	2007-001177	R-CHIP;8.2Kohm,5%,1/10W,DA,TP,2012	
R334	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R335	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012	
R337	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R338	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R339	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R340	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
R341	2007-000518	R-CHIP;2.7Kohm,5%,1/10W,DA,TP,2012	
R342	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012	
R345	2007-000457	R-CHIP;18Kohm,5%,1/10W,DA,TP,2012	
R350	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
R351	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
R352	2007-000444	R-CHIP;180KOHM,5%,1/10W,DA,TP,2012	
R353	2007-000572	R-CHIP;220ohm,5%,1/10W,DA,TP,2012	
R3A02	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A03	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
R3A04	2007-000355	R-CHIP;12Kohm,5%,1/10W,DA,TP,2012	
R3A05	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A06	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A07	2007-000502	R-CHIP;2.2OHM,5%,1/10W,DA,TP,2012	
R3A08	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R3A09	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A10	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
R3A11	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R3A12	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A13	2007-000778	R-CHIP;33OKOHM,5%,1/10W,DA,TP,2012	
R3A15	2007-000355	R-CHIP;12Kohm,5%,1/10W,DA,TP,2012	
R3A16	2007-000355	R-CHIP;12Kohm,5%,1/10W,DA,TP,2012	
R3A17	2007-000981	R-CHIP;5.6Kohm,5%,1/10W,DA,TP,2012	
R3A19	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A22	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A22	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A24	2007-000498	R-CHIP;2.2MOHM,5%,1/10W,DA,TP,2012	
R3A25	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A27	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
R3A28	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Desc and Spec	Remark
R3A29	2007-000841	R-CHIP;3KOHM,1%,1/10W,DA,TP,2012	
R3A30	2007-000964	R-CHIP;5.1Kohm,5%,1/10W,DA,TP,2012	
R3A31	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R3A32	2007-001092	R-CHIP;620ohm,5%,1/10W,DA,TP,2012	
R5D01	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R5D02	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RD03	2007-000881	R-CHIP;4.7ohm,5%,1/10W,DA,TP,2012	
XT301	B1280-0169	CRYSTAL;4.433619MHZ HC-49/U-S 15PPM SERI	
XT302	64539-012-009	CRYSTAL;3.579545 HC/49U(8PF) TAPG	
XT303	2801-001391	CRYSTAL-UNIT;3.575611MHZ,15PPM,28-AAM,S,	
SECAM PARTS			
C3S01	2203-000595	C-CERAMIC,CHIP;220pF,5%,50V,NPO,TP,2012,	
C3S02	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C3S03	2203-001388	C-CERAMIC,CHIP;10nF,5%,50V,X7R,TP,2012,2	
C3S04	2203-001388	C-CERAMIC,CHIP;10nF,5%,50V,X7R,TP,2012,2	
C3S05	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C3S06	2203-000363	C-CERAMIC,CHIP;150PF,5%,50V,NPO,TP,2012,	
C3S07	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C3S08	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C3S09	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3S10	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C3S11	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C3S12	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C3S13	2401-001965	C-AL;470NF,20%,50V,-,BK,4X7MM,1.5MM	
C3S14	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3	
C3S15	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C3S16	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C3S17	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2	
C3S19	2203-000661	C-CERAMIC,CHIP;270PF,5%,50V,NPO,2012,-,T	
C3S20	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012,	
C3S21	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C3S22	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C3S23	2203-001044	C-CERAMIC,CHIP;510PF,5%,50V,NPO,TP,2012,	
C3S25	2203-000295	C-CERAMIC,CHIP;10pF,5%,50V,NPO,TP,2012,-	
C3S26	2203-001246	C-CERAMIC,CHIP;82PF,5%,50V,NPO,TP,2012,-	
C3S27	2203-001135	C-CERAMIC,CHIP;680PF,5%,50V,SL,TP,2012,-	
C3S28	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
D3S01	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
IC3S01	1204-001058	IC-SIGNAL PROCESSOR;LA7337,DIP,28P,400MI	
L3S02	2702-000179	INDUCTOR-RADIAL;6.8UH,5%,6X6.4MM	
L3S03	2701-000165	INDUCTOR-AXIAL;27UH,5%,2.4X3.4MM	
L3S04	2701-000195	INDUCTOR-AXIAL;47UH,5%,2.4X3.4MM	
L3S05	2702-000142	INDUCTOR-RADIAL;22UH,5%,6X6.4MM	
L3S06	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q3S01	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO-92,T	
Q3S02	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO-92,T	
Q3S03	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,T	
Q3S04	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO-92,T	
Q3S05	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R3S01	2007-000615	R-CHIP;24Kohm,5%,1/10W,DA,TP,2012	
R3S02	2007-001177	R-CHIP;8.2Kohm,5%,1/10W,DA,TP,2012	
R3S03	2007-001224	R-CHIP;9.1Kohm,5%,1/10W,DA,TP,2012	
R3S04	2007-000653	R-CHIP;27Kohm,5%,1/10W,DA,TP,2012	
R3S05	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3S06	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R3S07	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3S08	2007-000710	R-CHIP;3.9Kohm,5%,1/10W,DA,TP,2012	
R3S09	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R3S10	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R3S11	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc.No	Part No	Desc and Spec	Remark
R3S12	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
R3S13	2007-000738	R-CHIP;30Kohm,5%,1/10W,DA,TP,2012	
R3S14	2007-001071	R-CHIP;6.8Kohm,5%,1/10W,DA,TP,2012	
R3S15	2007-001141	R-CHIP;7.5Kohm,5%,1/10W,DA,TP,2012	
R3S16	2007-000518	R-CHIP;2.7Kohm,5%,1/10W,DA,TP,2012	
R3S17	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R3S18	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R3S19	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3S20	2007-000904	R-CHIP;430ohm,5%,1/10W,DA,TP,2012	
R3S21	2007-001239	R-CHIP;910ohm,5%,1/10W,DA,TP,2012	
R3S22	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R3S23	2007-000615	R-CHIP;24Kohm,5%,1/10W,DA,TP,2012	
R3S24	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012	
R3S25	2007-000267	R-CHIP;1.8Kohm,5%,1/10W,DA,TP,2012	
Hi-Fi AUDIO PARTS			
C501	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C502	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C503	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C504	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C505	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C506	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C507	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C508	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C509	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C510	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C511	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C512	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C513	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C514	2203-000206	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	
C515	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C516	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,TP,2012	
C517	2203-001064	C-CERAMIC,CHIP;56NF,10%,50V,NPO,TP,2012,	
C518	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C519	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C520	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C521	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C522	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,-	
C523	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C524	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C525	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C527	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C528	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C529	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C530	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C532	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C533	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C534	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
C535	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C537	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C538	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C539	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C540	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C541	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C542	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C543	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C544	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C545	2202-000825	C-CERAMIC,MLC-AXIAL;680PF,10%,50V,Y5P,TP	
C548	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
IC501	1204-001162	IC-AUDIO PROCESSOR;TA1246F,QFP,48P,16MIL	
IC502	1204-001049	IC-SOUND;LA7256,DIP,24P,300MIL,PLASTIC,	

Loc.No	Part No	Desc and Spec	Remark
L501	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L502	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L503	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
R501	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R502	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R503	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R504	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R505	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
R506	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
R507	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
R508	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
R510	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R511	2007-001177	R-CHIP;8.2Kohm,5%,1/10W,DA,TP,2012	
R512	2001-000006	R-CARBON;2.4KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R513	2007-000653	R-CHIP;27Kohm,5%,1/10W,DA,TP,2012	
R514	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R515	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R516	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R517	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R518	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R519	2001-000009	R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R521	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R523	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R524	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R525	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
R526	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R527	2007-000546	R-CHIP;20KOHM,5%,1/10W,DA,TP,2012	
R528	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
R529	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R530	2007-000964	R-CHIP;5.1Kohm,5%,1/10W,DA,TP,2012	
R531	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R532	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
604	**AC93-10825D**	**ASSY-IF(TUNER);SV-4000W,WORLD WIDE 2**	
C401	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C402	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C403	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C404	2201-000800	C-CERAMIC,DISC;120PF,5%,50V,SL,TP,5X3,5	
C409	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C410	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C411	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C412	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C413	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C414	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C415	2203-001691	C-CERAMIC,CHIP;8.2PF,0.5PF,50V,NPO,TP,20	
C417	2203-001193	C-CERAMIC,CHIP;75PF,5%,50V,NPO,2012,-,TP	
C418	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C419	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5M	
C420	2203-001524	C-CERAMIC,CHIP;47PF,5%,50V,NPO,TP,2012,-	
C422	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
C423	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C424	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C425	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5M	
C426	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5M	
C427	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5M	
C428	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5M	
C429	2401-000970	C-AL;22UF,20%,50V,WT,TP,5X11,2MM	
C430	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5	
C431	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C432	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C434	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	

Loc.No	Part No	Desc and Spec	Remark
C435	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C436	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5	
C437	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5M	
C438	2301-000224	C-FILM,PEF;22NF,5%,50V,TP,7.4X3.9X13MM,5	
C439	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C440	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C441	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C442	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C444	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C445	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C446	2203-000858	C-CERAMIC,CHIP;39pF,5%,50V,NPO,TP,2012,-	
C447	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,TP,2012,2	
C448	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C449	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C450	2401-001364	C-AL;470UF,20%,16V,GP,TP,10X12MM,5M	
C451	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C452	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,	
C453	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C454	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C455	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
CN401	3710-000400	CONNECTOR-SOCKET;14P,1R,2.0MM,STRAIGHT,S	
CN402	3710-000400	CONNECTOR-SOCKET;14P,1R,2.0MM,STRAIGHT,S	
CN403	AC39-20817K	LEAD CONNECTOR-ASSY;-,51004,5395,14P,190	
D401	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D402	62169-302-032	DIODE;1SS110 TAPG	
FL401	2904-000253	FILTER-SAW AV;33.9MHZ,DIP10P,ST,17.1DB,P	
FL403	2904-000260	FILTER-SAW AV;38.9MHZ,SIP5P,ST,24.2DB,PA	
FL404	2903-000182	FILTER-CERAMIC;BP,5.5MHZ,70KHZ,-,-,TP,-	
FL405	2903-000193	FILTER-CERAMIC;BR,6.0MHz	
FL406	2903-000199	FILTER-CERAMIC;TR,6.5MHZ,70KHZ,-,-,TP	
FL407	2903-000141	FILTER-CERAMIC;BR,4.5MHZ	
FL408	2903-000185	FILTER-CERAMIC;BP,5.5MHZ,+-75KHZ,6DB,-,T	
FL409	2903-000194	FILTER-CERAMIC;BP,6.0MHZ,+-80KHZ,6DB,-,B	
FL410	B1243-0045	FILTER-CERAMIC;SP 6.5M SFE6.5MB TAPG	
FL411	2903-000130	FILTER-CERAMIC;BP,4.5MHZ	
IC401	AC14-12011Q	IC-LINEAR;TDA9800,DIP,NEG DEMOD	
IC402	AC14-12011Q	IC-LINEAR;TDA9800,DIP,NEG DEMOD	
IC403	AC14-12001Z	IC;BA7604,-,-	
IC404	AC14-12003P	IC;LA7920,-,-	
IC405	AC14-12003T	IC-L;KA33V TAPG,-,-	
L401	2701-000145	INDUCTOR-AXIAL;1UH,5%,2.4X3.4MM	
L402	62427-812-139	COIL-PEAKING;EL0606RA 1.3UH-K	
L403	2702-000144	INDUCTOR-RADIAL;27UH,5%,6X6.4MM	
L404	2701-000147	INDUCTOR-AXIAL;2.2UH,5%,2.4X3.4MM	
L405	2702-000185	INDUCTOR-RADIAL;8.2UH,5%,6X6.4MM	
L406	2701-000160	INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM	
L407	62427-812-139	COIL-PEAKING;EL0606RA 1.3UH-K	
L408	2701-000160	INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM	
L409	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q401	0501-000436	TR-SMALL SIGNAL;KTC3197,NPN,625MW,TO-92,	
Q402	0501-000436	TR-SMALL SIGNAL;KTC3197,NPN,625MW,TO-92,	
Q403	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q406	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO-92,T	
Q407	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q409	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q411	0504-000117	TR-DIGITAL;KSR1002,NPN,300MW,10K-10K,TO-	
Q412	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q413	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,T	
Q414	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
Q415	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	

Loc.No	Part No	Desc and Spec	Remark
R401	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R402	2007-000947	R-CHIP;47ohm,5%,1/10W,DA,TP,2012	
R403	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
R404	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
R405	2007-000267	R-CHIP;1.8Kohm,5%,1/10W,DA,TP,2012	
R406	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R407	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R408	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R409	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R410	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R411	61048-177-563	R-CARBON;RD 1/8 T 563-J	
R413	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R414	2007-000546	R-CHIP;20KOHM,5%,1/10W,DA,TP,2012	
R415	2007-000909	R-CHIP;43KOHM,1%,1/10W,DA,TP,2012	
R416	2007-000689	R-CHIP;3.3MOHM,5%,1/10W,DA,TP,2012	
R417	2007-000689	R-CHIP;3.3MOHM,5%,1/10W,DA,TP,2012	
R418	2001-000595	R-CARBON;3.3MOHM,5%,1/8W,AA,TP,1.8X3.2M	
R419	2007-000710	R-CHIP;3.9Kohm,5%,1/10W,DA,TP,2012	
R420	2007-000518	R-CHIP;2.7Kohm,5%,1/10W,DA,TP,2012	
R421	2007-001001	R-CHIP;510ohm,5%,1/10W,DA,TP,2012	
R422	2007-000401	R-CHIP;150ohm,5%,1/10W,DA,TP,2012	
R424	2007-000002	R-CHIP;75Kohm,5%,1/10W,DA,TP,2012	
R425	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R426	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R427	2007-000981	R-CHIP;5.6Kohm,5%,1/10W,DA,TP,2012	
R428	2007-001118	R-CHIP;680ohm,5%,1/10W,DA,TP,2012	
R429	2007-000607	R-CHIP;240ohm,5%,1/10W,DA,TP,2012	
R430	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R431	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R432	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R433	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R434	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R435	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R436	2001-000718	R-CARBON;4.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R437	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R438	2007-000947	R-CHIP;47ohm,5%,1/10W,DA,TP,2012	
R439	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
R440	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
R441	2007-000030	R-CHIP;560ohm,5%,1/10W,DA,TP,2012	
R442	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R443	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
R444	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R445	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R446	2007-000518	R-CHIP;2.7Kohm,5%,1/10W,DA,TP,2012	
R447	2007-000703	R-CHIP;3.6Kohm,5%,1/10W,DA,TP,2012	
R449	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
R450	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R451	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R452	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R453	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R454	2001-000534	R-CARBON;240OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R455	2001-000832	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R456	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R457	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
R458	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R470	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
TL401	AC26-12001A	TRANS-DET;9MM,0UH,BLK,8PF,77.9MHZ,M7T1,S	
TL402	AC26-12001A	TRANS-DET;9MM,0UH,BLK,8PF,77.9MHZ,M7T1,S	
U401	AC40-30071A	TM-BLOCK;TCRL9600VD04A,PAL,106	
VR401	2103-000171	VR-SEMI;10KOHM,30%,1/10W,TOP	

Loc.No	Part No	Desc & Spec	Remark
W435	2701-000145	INDUCTOR-AXIAL;1UH,5%,2.4X3.4MM	
602	**AC93-10825C**	**ASSY-I/O;SV-4000W,WORLD WIDE 2**	
I/O PARTS			
C4301	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4302	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4303	2203-001164	C-CERAMIC,CHIP;68PF,5%,50V,SL,2012,-,TP	
C4304	2203-000335	C-CERAMIC,CHIP;12pF,5%,50V,NPO,TP,2012,-	
C4305	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C4306	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C4307	2401-000588	C-AL;1UF,20%,50V,GP,BK,3X5,1MM	
C4308	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C4309	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4310	2203-000858	C-CERAMIC,CHIP;39pF,5%,50V,NPO,TP,2012,-	
C4311	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,TP,2012,2	
C4312	2203-001164	C-CERAMIC,CHIP;68PF,5%,50V,SL,2012,-,TP	
C4313	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C4314	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C4315	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4316	2203-001230	C-CERAMIC,CHIP;820PF,5%,50V,NPO,2012,-,T	
C4317	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C4318	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C4319	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4321	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C4322	2401-003122	C-AL;4.7UF,20%,50V,LL,TP,4X7,1.5	
C4323	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C4324	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4325	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C4326	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C4327	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C4328	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C4329	2401-003122	C-AL;4.7UF,20%,50V,LL,TP,4X7,1.5	
C4332	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4334	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4335	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4336	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4338	2203-000661	C-CERAMIC,CHIP;270PF,5%,50V,NPO,2012,-,T	
C4339	2203-000661	C-CERAMIC,CHIP;270PF,5%,50V,NPO,2012,-,T	
C4340	2203-001702	C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,	
C4341	2203-001702	C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,	
C4342	2203-001164	C-CERAMIC,CHIP;68PF,5%,50V,SL,2012,-,TP	
C4344	2203-000661	C-CERAMIC,CHIP;270PF,5%,50V,NPO,2012,-,T	
C4345	2203-000661	C-CERAMIC,CHIP;270PF,5%,50V,NPO,2012,-,T	
C4347	2203-000661	C-CERAMIC,CHIP;270PF,5%,50V,NPO,2012,-,T	
C4348	2203-000661	C-CERAMIC,CHIP;270PF,5%,50V,NPO,2012,-,T	
C4349	2203-001164	C-CERAMIC,CHIP;68PF,5%,50V,SL,2012,-,TP	
C4350	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4351	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C4352	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C4354	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C4355	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C4356	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C4357	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C4358	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C4359	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4361	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C4362	A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X	
C4364	A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X	
C4367	2401-001905	C-AL;10UF,20%,16V,BP,BK,6X11MM,2.5M	
C4369	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4370	2203-001702	C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,	

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C4371	2203-001702	C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,	
C4372	2203-000858	C-CERAMIC,CHIP;39pF,5%,50V,NPO,TP,2012,-	
C4375	2203-001525	C-CERAMIC,CHIP;56PF,5%,50V,NPO,TP,2012,-	
C4376	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C4377	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
CN4301	3711-002144	CONNECTOR-HEADER;NOWALL,15P,1R,2.0MM,ANG	
CN4302	3711-002144	CONNECTOR-HEADER;NOWALL,15P,1R,2.0MM,ANG	
CN4303	AC39-20817J	LEAD CONNECTOR-ASSY;-,51004,60-9073-3018	
CN4304	3711-001061	CONNECTOR-HEADER;BOX,6P,1R,2MM,ANGLE,SN	
CN4305	3711-002146	CONNECTOR-HEADER;NOWALL,7P,1R,2.0MM,ANGL	
D4301	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D4302	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-	
D4304	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D4305	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-	
D4306	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-	
D4307	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-	
IC4301	1001-000200	IC-VIDEO SWITCH;NJM2234M,3-INPUT,SOP,8P,	
IC4302	AC14-12012W	IC-DRIVE;NJM2267D,DIP,-	
IC4303	AC14-12014D	IC-CCD;TL8828P,0.32H),DIP	
IC4304	1001-000200	IC-VIDEO SWITCH;NJM2234M,3-INPUT,SOP,8P,	
IC4305	1001-000200	IC-VIDEO SWITCH;NJM2234M,3-INPUT,SOP,8P,	
IC4306	AC14-12012W	IC-DRIVE;NJM2267D,DIP,-	
JC4301	3722-000438	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
JC4302	AC37-22001T	JACK-PIN;DSPS-8805-03W,PI4,3P,GLD,-	
JC4303	3722-000435	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
JC4304	3710-000479	CONNECTOR-SOCKET;20P,-,-,STRAIGHT,SN	
JC4305	3722-000438	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
JC4306	AC37-22001T	JACK-PIN;DSPS-8805-03W,PI4,3P,GLD,-	
JC4307	3722-000435	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
JC4308	3722-000438	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
JC4309	AC37-22001T	JACK-PIN;DSPS-8805-03W,PI4,3P,GLD,-	
JC4310	3722-000435	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
L4301	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L4302	2701-000138	INDUCTOR-AXIAL;18UH,5%,2.4X3.4MM	
L4303	2701-000206	INDUCTOR-AXIAL;56UH,5%,2.4X3.4MM	
L4304	2701-000117	INDUCTOR-AXIAL;10UH,5%,2.4X3.4MM	
L4307	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L4308	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L4309	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L4310	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4311	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4312	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4313	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4314	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,	
L4315	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4316	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4317	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4318	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4319	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,	
L4330	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4331	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L4332	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,	
Q4301	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
Q4302	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
Q4303	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
Q4304	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
Q4305	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
Q4306	0504-000128	TR-DIGITAL;-,NPN,200MW,22K-22KOHM,SOT-23	
Q4307	0504-000128	TR-DIGITAL;-,NPN,200MW,22K-22KOHM,SOT-23	
Q4308	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,T	

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Q4310	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
Q4311	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
R4301	2007-000282	R-CHIP;100Kohm,5%,1/10W,DA,TP,2012	
R4302	2007-000282	R-CHIP;100Kohm,5%,1/10W,DA,TP,2012	
R4303	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R4304	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
R4305	2007-000230	R-CHIP;1.3KOHM,1%,1/10W,DA,TP,2012	
R4306	2007-001071	R-CHIP;6.8Kohm,5%,1/10W,DA,TP,2012	
R4307	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
R4308	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
R4309	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
R4310	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R4311	2007-000822	R-CHIP;390ohm,5%,1/10W,DA,TP,2012	
R4312	2007-000822	R-CHIP;390ohm,5%,1/10W,DA,TP,2012	
R4313	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
R4314	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
R4315	2007-000282	R-CHIP;100Kohm,5%,1/10W,DA,TP,2012	
R4316	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R4317	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
R4318	2004-001290	R-METAL;820OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R4328	2007-000401	R-CHIP;150ohm,5%,1/10W,DA,TP,2012	
R4329	2007-001166	R-CHIP;75ohm,5%,1/10W,DA,TP,2012	
R4330	2007-001166	R-CHIP;75ohm,5%,1/10W,DA,TP,2012	
R4331	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4332	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4333	2007-001166	R-CHIP;75ohm,5%,1/10W,DA,TP,2012	
R4338	2007-000565	R-CHIP;220Kohm,5%,1/10W,DA,TP,2012	
R4339	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4340	2007-000565	R-CHIP;220Kohm,5%,1/10W,DA,TP,2012	
R4341	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4342	2007-001166	R-CHIP;75ohm,5%,1/10W,DA,TP,2012	
R4343	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4344	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4345	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4346	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4347	2007-001201	R-CHIP;820ohm,5%,1/10W,DA,TP,2012	
R4348	2007-001239	R-CHIP;910ohm,5%,1/10W,DA,TP,2012	
R4349	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
R4350	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
R4351	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R4352	2007-000267	R-CHIP;1.8Kohm,5%,1/10W,DA,TP,2012	
R4353	2007-000615	R-CHIP;24Kohm,5%,1/10W,DA,TP,2012	
R4354	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R4355	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R4360	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4361	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
R4362	2007-000593	R-CHIP;22ohm,5%,1/10W,DA,TP,2012	
R4363	2007-000593	R-CHIP;22ohm,5%,1/10W,DA,TP,2012	
R4364	2007-000593	R-CHIP;22ohm,5%,1/10W,DA,TP,2012	
R4365	2007-000593	R-CHIP;22ohm,5%,1/10W,DA,TP,2012	
R4366	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
VR4301	2103-000230	VR-SEMI;2.2KOHM,30%,1/10W,SIDE	
XT4301	2801-001384	CRYSTAL-UNIT;14.31818MHZ,30PPM,28-AAA,16	
ZD4301	0403-000339	DIODE-ZENER;UZ3.0B,3.0V,2.8-3.2V,500MW,D	
OSD PARTS			
C901	2203-000555	C-CERAMIC,CHIP;20PF,5%,50V,NPO,TP,2012,-	
C903	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C904	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C905	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012,	
C906	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	

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C907	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012,	
C908	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C909	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
C911	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,TP,2012,2	
C912	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,TP,2012,2	
C913	2401-001965	C-AL;470NF,20%,50V,-,BK,4X7MM,1.5MM	
C915	2401-000588	C-AL;1UF,20%,50V,GP,BK,3X5,1MM	
C916	2203-000321	C-CERAMIC,CHIP;120PF,5%,50V,SL,TP,2012,-	
C917	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012,	
C918	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
C919	2203-001674	C-CERAMIC,CHIP;6.8NF,20%,16V,X7S,TP,2012	
C920	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,TP,2012,2	
C921	2401-001911	C-AL;1UF,20%,50V,BP,BK,6X11MM,2MM	
C923	2203-001646	C-CERAMIC,CHIP;3PF,0.5PF,50V,NPO,TP,2012	
C931	2301-000365	C-FILM,PEF;1.5NF,10%,50V,TP,5.5X7X2.8MM,	
C932	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C933	2301-000402	C-FILM,PEF;1NF,5%,50V,TP,5X7X2.8MM,5MM	
C934	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C935	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C936	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
C937	2301-000415	C-FILM,PEF;22NF,5%,50V,TP,6.5X10.5X4MM,5	
C938	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,TP,2012,2	
C939	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,TP,2012,2	
C940	2203-000363	C-CERAMIC,CHIP;150PF,5%,50V,NPO,TP,2012,	
C941	2203-000001	C-CERAMIC,CHIP;5PF,0.5PF,50V,NPO,2012,-,	
C997	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
C998	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
D903	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-	
IC901	AC11-10020H	MASK-ROM;LC74761-9682,30P,DIP,256πÆ¿/-	
IC902	AC14-12002F	IC;NJM2229S,-,-	
L902	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L903	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L904	2701-000201	INDUCTOR-AXIAL;5.6UH,5%,2.4X3.4MM	
Q901	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
Q902	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
Q903	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R903	2007-001201	R-CHIP;820ohm,5%,1/10W,DA,TP,2012	
R904	2007-000457	R-CHIP;18Kohm,5%,1/10W,DA,TP,2012	
R905	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
R906	2007-000342	R-CHIP;120OHM,1%,1/10W,DA,TP,2012	
R908	2007-000938	R-CHIP;47Kohm,1%,1/10W,DA,TP,2012	
R909	2007-000518	R-CHIP;2.7Kohm,5%,1/10W,DA,TP,2012	
R911	2007-000028	R-CHIP;39ohm,5%,1/10W,DA,TP,2012	
R911	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
R915	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R916	2007-001071	R-CHIP;6.8Kohm,5%,1/10W,DA,TP,2012	
R917	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
R918	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
R920	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R921	2007-000827	R-CHIP;39KOHM,1%,1/10W,DA,TP,2012	
R932	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R933	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
R934	2007-000282	R-CHIP;100Kohm,5%,1/10W,DA,TP,2012	
R935	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
R936	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012	
R937	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
R938	2007-001113	R-CHIP;680Kohm,5%,1/10W,DA,TP,2012	
R939	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
R940	2007-001201	R-CHIP;820ohm,5%,1/10W,DA,TP,2012	
XT901	2801-003311	CRYSTAL-UNIT;17.734475MHZ,50PPM,28-AAA,1	

Loc.No	Part No	Desc & Spec	Remark
XT902	2801-001384	CRYSTAL-UNIT;14.31818MHZ,30PPM,28-AAA,16	
603	**AC93-10825E**	**ASSY-DIGITAL;SV-4000W,WORLD WIDE 2**	
PROCESS PARTS			
CD1	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD10	2203-001517	C-CERAMIC,CHIP;15pF,5%,50V,NPO,TP,2012,-	
CD11	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
CD12	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
CD13	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
CD14	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
CD15	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
CD16	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD17	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD18	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD19	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD2	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD20	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,TP,2012,2	
CD21	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CD22	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CD23	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD24	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD25	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD26	2402-000149	C-AL,SMD;4.7UF,20%,16V,GP,TP,3X5.5MM,-	
CD27	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD28	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD29	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CD3	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD30	2402-000149	C-AL,SMD;4.7UF,20%,16V,GP,TP,3X5.5MM,-	
CD31	2402-000149	C-AL,SMD;4.7UF,20%,16V,GP,TP,3X5.5MM,-	
CD32	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD33	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD34	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CD35	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CD36	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CD37	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CD4	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CD42	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CD45	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
CD5	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD51	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
CD8	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CD9	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
D5	0407-000150	DIODE-ARRAY;MA151WK,40V,100MA,CA2-3,SOT-	
DD10	0407-000150	DIODE-ARRAY;MA151WK,40V,100MA,CA2-3,SOT-	
DD3	0407-000150	DIODE-ARRAY;MA151WK,40V,100MA,CA2-3,SOT-	
DD4	0403-000823	DIODE-ZENER;UZ2.0BSA,2.0V,1.88-2.10V,500	
DD5	0403-000823	DIODE-ZENER;UZ2.0BSA,2.0V,1.88-2.10V,500	
DD6	0403-000823	DIODE-ZENER;UZ2.0BSA,2.0V,1.88-2.10V,500	
DD7	0403-000823	DIODE-ZENER;UZ2.0BSA,2.0V,1.88-2.10V,500	
DD8	0407-000150	DIODE-ARRAY;MA151WK,40V,100MA,CA2-3,SOT-	
EMD10	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD11	AC29-32001E	FILTER-EMI CHIP;NFM40R11C223T1 0.022,-,-	
EMD12	AC29-32001E	FILTER-EMI CHIP;NFM40R11C223T1 0.022,-,-	
EMD13	AC29-32001E	FILTER-EMI CHIP;NFM40R11C223T1 0.022,-,-	
EMD15	AC29-32001E	FILTER-EMI CHIP;NFM40R11C223T1 0.022,-,-	
EMD16	AC29-32001E	FILTER-EMI CHIP;NFM40R11C223T1 0.022,-,-	
EMD18	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD2	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD20	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD21	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD22	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	

Loc.No	Part No	Desc & Spec	Remark
EMD23	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD24	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD25	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD3	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD4	AC29-32001E	FILTER-EMI CHIP;NFM40R11C223T1 0.022,-,-	
EMD5	AC29-32001E	FILTER-EMI CHIP;NFM40R11C223T1 0.022,-,-	
EMD6	AC29-32001E	FILTER-EMI CHIP;NFM40R11C223T1 0.022,-,-	
EMD7	AC29-32001E	FILTER-EMI CHIP;NFM40R11C223T1 0.022,-,-	
EMD8	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
EMD9	AC29-32001C	FILTER-EMI CHIP;NFM40R01C101T1 100PF,-,-	
ICD1	AC13-10030K	IC-ASIC;-,SVV9602,QFP,160P,VIDEO SIGNA	
ICD2	1109-000136	IC-VIDEO RAM;4216C256,256X16BIT,SOP,-,-,	
LD1	AC29-32001B	FILTER-EMI BEAD;CB321611-TA SB 0.2OH,-,-	
LD2	AC29-32001B	FILTER-EMI BEAD;CB321611-TA SB 0.2OH,-,-	
LD3	AC29-32001B	FILTER-EMI BEAD;CB321611-TA SB 0.2OH,-,-	
LD4	AC29-32001B	FILTER-EMI BEAD;CB321611-TA SB 0.2OH,-,-	
LD5	AC29-32001B	FILTER-EMI BEAD;CB321611-TA SB 0.2OH,-,-	
QD1	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QD3	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QD4	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QD5	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QD6	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QD7	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QD8	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QD9	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
RD1	2007-000477	R-CHIP;1Mohm,5%,1/10W,DA,TP,2012	
RD10	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RD13	2007-000267	R-CHIP;1.8Kohm,5%,1/10W,DA,TP,2012	
RD14	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RD15	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RD16	2007-001166	R-CHIP;75ohm,5%,1/10W,DA,TP,2012	
RD17	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RD18	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RD19	2007-001166	R-CHIP;75ohm,5%,1/10W,DA,TP,2012	
RD2	2007-000477	R-CHIP;1Mohm,5%,1/10W,DA,TP,2012	
RD20	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RD21	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RD22	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
RD23	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
RD24	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RD25	2007-000607	R-CHIP;240ohm,5%,1/10W,DA,TP,2012	
RD26	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
RD27	2007-000774	R-CHIP;33Kohm,5%,1/10W,DA,TP,2012	
RD28	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RD29	2007-001133	R-CHIP;68ohm,5%,1/10W,DA,TP,2012	
RD3	2007-000477	R-CHIP;1Mohm,5%,1/10W,DA,TP,2012	
RD30	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
RD31	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012	
RD32	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RD33	2007-001133	R-CHIP;68ohm,5%,1/10W,DA,TP,2012	
RD34	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
RD35	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012	
RD36	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RD37	2007-001001	R-CHIP;510ohm,5%,1/10W,DA,TP,2012	
RD38	2007-001166	R-CHIP;75ohm,5%,1/10W,DA,TP,2012	
RD39	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RD4	2007-000477	R-CHIP;1Mohm,5%,1/10W,DA,TP,2012	
RD40	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RD41	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
RD42	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Desc & Spec	Remark
RD43	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RD44	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RD5	2007-000477	R-CHIP;1Mohm,5%,1/10W,DA,TP,2012	
RD50	2007-001028	R-CHIP;560OHM,1%,1/10W,DA,TP,2012	
RD51	2007-000686	R-CHIP;3.3Kohm,5%,1/10W,DA,TP,2012	
RD52	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
RD6	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
RD7	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RD8	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
RD9	2007-000686	R-CHIP;3.3Kohm,5%,1/10W,DA,TP,2012	
VCD1	61829-302-292	C-TRIMMER;ECR-HA020D41	
VCD2	61829-302-292	C-TRIMMER;ECR-HA020D41	
VCD3	61829-302-292	C-TRIMMER;ECR-HA020D41	
VCD4	61829-302-292	C-TRIMMER;ECR-HA020D41	
VRD1	2104-000151	VR-SMD;50KOHM,25%,0.15W,TOP	
XD1	2801-001444	CRYSTAL-UNIT;26.25641MHZ,50PPM,28-AAM,16	
XD2	2801-003311	CRYSTAL-UNIT;17.734475MHZ,50PPM,28-AAA,1	
XD3	2801-001385	CRYSTAL-UNIT;14.31818MHZ,30PPM,28-AAA,16	
XD4	2801-001443	CRYSTAL-UNIT;14.328225MHZ,20PPM,28-AAM,1	
XD5	2801-001442	CRYSTAL-UNIT;14.302446MHZ,20PPM,28-AAM,1	
DECODER PARTS			
CA100	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA101	2203-000239	C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012,	
CA102	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA103	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA104	2203-000239	C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012,	
CA105	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA106	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA107	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA108	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA109	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA11	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA110	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA111	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA12	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA13	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA14	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA15	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA151	2203-000239	C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012,	
CA152	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,TP,2012,2	
CA153	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA154	2203-000335	C-CERAMIC,CHIP;12pF,5%,50V,NPO,TP,2012,-	
CA156	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA159	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,TP,2012,	
CA16	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA160	2402-000187	C-AL,SMD;220NF,20%,50V,-,TP,3X5.5MM,-	
CA167	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
CA168	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
CA169	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
CA17	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA170	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
CA18	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA19	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA20	2203-000716	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012	
CA21	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA22	2203-001653	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,321	
CA23	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA24	2203-000716	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012	
CA25	2402-000187	C-AL,SMD;220NF,20%,50V,-,TP,3X5.5MM,-	
CA26	2203-001524	C-CERAMIC,CHIP;47PF,5%,50V,NPO,TP,2012,-	
CA27	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA28	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA29	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA30	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA31	2402-001010	C-AL,SMD;47UF,20%,16V,GP,TP,6.6X6.6X5.4	
CA32	2203-001653	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,321	
CA33	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA34	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA35	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA36	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CA37	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA5	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,TP,2012,2	
CA52	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA6	2402-000181	C-AL,SMD;3.3UF,20%,35V,GP,TP,3X5.5MM,-	
CA7	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,TP,2012,	
CA77	2203-001090	C-CERAMIC,CHIP;5pF,0.25pF,50V,NPO,TP,201	
CA78	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,TP,2012,2	
CA79	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,TP,2012,2	
CA8	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA80	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,TP,2012,2	
CA81	2203-001246	C-CERAMIC,CHIP;82PF,5%,50V,NPO,TP,2012,-	
CA82	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,TP,2012,2	
CA83	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA84	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA85	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA86	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CA87	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA88	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA89	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA9	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA90	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA91	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA92	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA93	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CA96	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA97	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CA98	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
CA99	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CNA1	3711-000691	CONNECTOR-HEADER;BOX,14P,1R,2MM,STRAIGHT	
CNA2	AC39-20817H	LEAD CONNECTOR-ASSY;-,51004,60-9073-3018	
CNA3	3711-003107	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,STRAIGH	
DA2	0401-001026	DIODE-SWITCHING;1SS380,40V,225MA,SOD-323	
DA3	0401-001026	DIODE-SWITCHING;1SS380,40V,225MA,SOD-323	
ICA10	1001-000200	IC-VIDEO SWITCH;NJM2234M,3-INPUT,SOP,8P,	
ICA11	AC14-12015F	IC-LINEAR;TDA4665,DIP,-	
ICA2	AC14-12002C	IC;LA7213,-,-	
ICA4	AC14-12012Q	IC-VOLG REGU;PQ05RF11,SIP,-	
ICA5	1204-000430	IC-DECODER;TDA9141,DIP,32P,-,PLASTIC,8.8	
LA10	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
LA11	2703-000386	INDUCTOR-SMD;39UH,5%,3.2X2.5X2.2MM	
LA12	2703-000236	INDUCTOR-SMD;68uH,5%,2.5x3.2x2.2mm	
LA13	2703-000236	INDUCTOR-SMD;68uH,5%,2.5x3.2x2.2mm	
LA14	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
LA15	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
LA16	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
LA2	2703-000236	INDUCTOR-SMD;68uH,5%,2.5x3.2x2.2mm	
LA23	2703-000236	INDUCTOR-SMD;68uH,5%,2.5x3.2x2.2mm	
LA24	2703-000391	INDUCTOR-SMD;82UH,5%,3.2X2.5X2.2MM	
LA25	2703-000377	INDUCTOR-SMD;12UH,5%,3.2X2.5X2.2MM	
LA3	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	

Loc.No	Part No	Desc & Spec	Remark
LA4	2702-000108	INDUCTOR-RADIAL;100UH,5%,6X6.4MM	
LA5	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
QA1	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA2	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA20	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA21	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA22	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA23	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA24	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA25	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA26	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA27	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA28	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA29	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA3	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA30	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA31	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA32	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA33	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA35	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA36	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA38	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA39	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA4	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA42	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA43	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA44	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA5	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,	
QA50	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA6	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
RA1	2007-000650	R-CHIP;27KOHM,1%,1/10W,DA,TP,2012	
RA10	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA100	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA101	2007-000781	R-CHIP;33ohm,5%,1/10W,DA,TP,2012	
RA102	2007-000822	R-CHIP;390ohm,5%,1/10W,DA,TP,2012	
RA103	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA104	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
RA105	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RA106	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA107	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA11	2007-000565	R-CHIP;220Kohm,5%,1/10W,DA,TP,2012	
RA118	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
RA119	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
RA12	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA125	2007-000068	R-CHIP;470Kohm,5%,1/10W,DA,TP,2012	
RA126	2007-000068	R-CHIP;470Kohm,5%,1/10W,DA,TP,2012	
RA129	2007-000282	R-CHIP;100Kohm,5%,1/10W,DA,TP,2012	
RA13	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA132	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA133	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RA137	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA139	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
RA14	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA143	2007-000947	R-CHIP;47ohm,5%,1/10W,DA,TP,2012	
RA145	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA147	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA148	2007-000938	R-CHIP;47Kohm,1%,1/10W,DA,TP,2012	
RA15	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA153	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
RA16	2007-000830	R-CHIP;39Kohm,5%,1/10W,DA,TP,2012	
RA17	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA18	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
RA19	2007-000409	R-CHIP;15Kohm,5%,1/10W,DA,TP,2012	
RA20	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
RA21	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RA22	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RA23	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
RA24	2007-000981	R-CHIP;5.6Kohm,5%,1/10W,DA,TP,2012	
RA25	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA67	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RA68	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
RA69	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA70	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA71	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA72	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA74	2007-000830	R-CHIP;39Kohm,5%,1/10W,DA,TP,2012	
RA76	2007-000781	R-CHIP;33ohm,5%,1/10W,DA,TP,2012	
RA77	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA78	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RA79	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RA8	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA80	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA81	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA82	2007-001155	R-CHIP;750ohm,5%,1/10W,DA,TP,2012	
RA83	2007-001177	R-CHIP;8.2Kohm,5%,1/10W,DA,TP,2012	
RA84	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
RA85	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA86	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA87	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA88	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA89	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA9	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA90	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RA91	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA92	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA93	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA94	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA95	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA96	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA97	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RA98	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA99	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
VRA3	2104-000122	VR-SMD;500OHM,25%,0.15W,TOP	
VRA4	2104-000119	VR-SMD;2.2KOHM,25%,0.15W,TOP	
VRA5	2104-000119	VR-SMD;2.2KOHM,25%,0.15W,TOP	
XA1	2801-000274	CRYSTAL-UNIT;4.433619MHZ,30PPM,28-AAM,20	
XA2	2801-003128	CRYSTAL-UNIT;3.575611MHZ,30PPM,28-AAM,20	
XA3	2801-003298	CRYSTAL-UNIT;3.579545MHZ,30PPM,28-AAM,20	
XA4	2801-003125	CRYSTAL-UNIT;3.582056MHZ,30PPM,28-AAM,20	
ENCODER PARTS			
CA1	2401-001545	C-AL;47uF,20%,25V,GP,TP,6.3x7mm,2.5	
CA113	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA114	2203-001525	C-CERAMIC,CHIP;56PF,5%,50V,NPO,TP,2012,-	
CA115	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA116	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA117	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012,	
CA118	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012,	
CA119	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG	
CA120	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA121	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	

Loc.No	Part No	Desc & Spec	Remark
CA122	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA123	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA124	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA125	2402-000232	C-AL,SMD;1UF,5%,50V,GP,TP,4X5.4,1MM	
CA126	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA127	2203-001653	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,321	
CA128	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,TP,2012	
CA129	2203-001602	C-CERAMIC,CHIP;220NF,+80-20%,50V,Z5U,TP,	
CA130	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012,	
CA131	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CA132	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA133	2402-000149	C-AL,SMD;4.7UF,20%,16V,GP,TP,3X5.5MM,-	
CA134	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012,	
CA135	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,TP,20	
CA137	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
CA138	2203-001164	C-CERAMIC,CHIP;68PF,5%,50V,SL,2012,-,TP	
CA139	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
CA140	2402-000149	C-AL,SMD;4.7UF,20%,16V,GP,TP,3X5.5MM,-	
CA141	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA142	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,TP,2012,2	
CA144	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CA145	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA148	2203-001164	C-CERAMIC,CHIP;68PF,5%,50V,SL,2012,-,TP	
CA149	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA150	2203-000595	C-CERAMIC,CHIP;220pF,5%,50V,NPO,TP,2012,	
CA155	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA158	2203-000953	C-CERAMIC,CHIP;470pF,5%,50V,NPO,TP,2012,	
CA161	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA162	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA163	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
CA165	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA166	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
CA171	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
CA2	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA3	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA38	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA39	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA40	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA41	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA42	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA43	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA44	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA45	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA46	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA47	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA48	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA49	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA50	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA51	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA53	2203-001653	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,321	
CA54	2402-000112	C-AL,SMD;10UF,20%,16V,GP,TP,3X5.5,-	
CA55	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA56	2203-001246	C-CERAMIC,CHIP;82PF,5%,50V,NPO,TP,2012,-	
CA57	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA58	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012,	
CA59	2203-000979	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012,	
CA60	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG	
CA61	2203-001602	C-CERAMIC,CHIP;220NF,+80-20%,50V,Z5U,TP,	
CA62	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA63	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	

Loc.No	Part No	Desc & Spec	Remark
CA64	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CA65	2203-001602	C-CERAMIC,CHIP;220NF,+80-20%,50V,Z5U,TP,	
CA66	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CA67	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA68	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG	
CA69	2203-001592	C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2M	
CA70	2203-001524	C-CERAMIC,CHIP;47PF,5%,50V,NPO,TP,2012,-	
CA71	2203-000295	C-CERAMIC,CHIP;10pF,5%,50V,NPO,TP,2012,-	
CA72	2203-000295	C-CERAMIC,CHIP;10pF,5%,50V,NPO,TP,2012,-	
CA73	2203-001602	C-CERAMIC,CHIP;220NF,+80-20%,50V,Z5U,TP,	
CA74	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,	
CA75	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,TP,5.3X1.5X5.	
CA76	2203-000335	C-CERAMIC,CHIP;12pF,5%,50V,NPO,TP,2012,-	
DA1	0407-000150	DIODE-ARRAY;MA151WK,40V,100MA,CA2-3,SOT-	
DA4	0401-001026	DIODE-SWITCHING;1SS380,40V,225MA,SOD-323	
DA6	0407-000150	DIODE-ARRAY;MA151WK,40V,100MA,CA2-3,SOT-	
FLA1	2909-000173	FILTER-LC;4.0MHZ,-,3.5DB,BK,-,-	
FLA2	AC29-90200E	FILTER-LC;DP,SD351F5M,DL,4.25/4.5MHZ,BK	
ICA1	AH14-10004R	IC;M74HCU04,SOP,TAPE 14P	
ICA12	AC14-12004U	IC-FP;NJM 2235M(TE1),-,-	
ICA13	1204-001111	IC-ENCODER;TDA8505,DIP,32P,400MIL,PLASTI	
ICA14	0801-000825	IC-CMOS LOGIC;74HC4538,MULTIVIBATOR,SOP,	
ICA15	AC14-12007S	IC-LOGIC;TC4W53FU,SSOP,-	
ICA18	AC14-12005L	IC-LOGIC;GD74HC74,DIP,-	
ICA6	1001-000200	IC-VIDEO SWITCH;NJM2234M,3-INPUT,SOP,8P,	
ICA7	1001-000200	IC-VIDEO SWITCH;NJM2234M,3-INPUT,SOP,8P,	
ICA8	AC14-12012U	IC;NJM2265M(T1),SOP,8P	
ICA9	1204-001112	IC-ENCODER;TDA8501T,SOP,24P,-,PLASTIC,5.	
LA1	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
LA17	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
LA18	2702-000108	INDUCTOR-RADIAL;100UH,5%,6X6.4MM	
LA19	2703-000226	INDUCTOR-SMD;56uH,5%,2.5x3.2x2.2mm	
LA20	2703-000226	INDUCTOR-SMD;56uH,5%,2.5x3.2x2.2mm	
LA6	2703-000174	INDUCTOR-SMD;22UH,5%,2.5X3.2X2.2MM	
LA7	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
LA8	2702-000108	INDUCTOR-RADIAL;100UH,5%,6X6.4MM	
LA9	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
QA10	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA11	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA12	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA13	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA14	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA15	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA16	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QA17	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA19	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA34	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA37	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA40	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA41	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA45	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA48	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA49	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K-47K,SOT	
QA7	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA8	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
QA9	0501-000312	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
RA108	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RA109	2007-001166	R-CHIP;75ohm,5%,1/10W,DA,TP,2012	
RA110	2007-000710	R-CHIP;3.9Kohm,5%,1/10W,DA,TP,2012	
RA111	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Desc & Spec	Remark
RA112	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
RA113	2007-000267	R-CHIP;1.8Kohm,5%,1/10W,DA,TP,2012	
RA114	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA115	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA116	2007-000221	R-CHIP;1.2Kohm,5%,1/10W,DA,TP,2012	
RA117	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA120	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RA121	2007-000830	R-CHIP;39Kohm,5%,1/10W,DA,TP,2012	
RA122	2007-000355	R-CHIP;12Kohm,5%,1/10W,DA,TP,2012	
RA123	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA124	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RA130	2007-000241	R-CHIP;1.5Kohm,5%,1/10W,DA,TP,2012	
RA131	2007-001177	R-CHIP;8.2Kohm,5%,1/10W,DA,TP,2012	
RA134	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RA135	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RA138	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
RA141	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA144	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA146	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
RA149	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RA150	2007-000830	R-CHIP;39Kohm,5%,1/10W,DA,TP,2012	
RA151	2007-000457	R-CHIP;18Kohm,5%,1/10W,DA,TP,2012	
RA154	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA155	2007-000872	R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012	
RA2	2007-000964	R-CHIP;5.1Kohm,5%,1/10W,DA,TP,2012	
RA26	2007-000023	R-CHIP;120ohm,5%,1/10W,DA,TP,2012	
RA27	2007-001118	R-CHIP;680ohm,5%,1/10W,DA,TP,2012	
RA28	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
RA29	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA3	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
RA30	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA31	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RA32	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA33	2007-000593	R-CHIP;22ohm,5%,1/10W,DA,TP,2012	
RA34	2007-000781	R-CHIP;33ohm,5%,1/10W,DA,TP,2012	
RA35	2007-000030	R-CHIP;560ohm,5%,1/10W,DA,TP,2012	
RA36	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
RA37	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA38	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA39	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RA4	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA40	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA41	2007-000593	R-CHIP;22ohm,5%,1/10W,DA,TP,2012	
RA42	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RA43	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA44	2007-000947	R-CHIP;47ohm,5%,1/10W,DA,TP,2012	
RA45	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
RA46	2007-001198	R-CHIP;820ohm,1%,1/10W,DA,TP,2012	
RA47	2007-000941	R-CHIP;47Kohm,5%,1/10W,DA,TP,2012	
RA48	2007-000766	R-CHIP;330ohm,5%,1/10W,DA,TP,2012	
RA49	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA5	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
RA50	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RA51	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RA52	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA53	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA54	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA55	2007-000931	R-CHIP;470ohm,5%,1/10W,DA,TP,2012	
RA56	2007-000822	R-CHIP;390ohm,5%,1/10W,DA,TP,2012	
RA57	2007-001155	R-CHIP;750ohm,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Desc & Spec	Remark
RA58	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA59	2007-000642	R-CHIP;270ohm,5%,1/10W,DA,TP,2012	
RA6	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
RA60	2007-000710	R-CHIP;3.9Kohm,5%,1/10W,DA,TP,2012	
RA61	2007-000493	R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012	
RA62	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA63	2007-000395	R-CHIP;150Kohm,5%,1/10W,DA,TP,2012	
RA64	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA65	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RA7	2007-000586	R-CHIP;22Kohm,5%,1/10W,DA,TP,2012	
RA73	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RA75	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
VRA1	2104-000110	VR-SMD;10KOHM,25%,0.15W,TOP	
VRA2	2104-000104	VR-SMD;100KOHM,25%,0.15W,TOP	
VRA6	2104-000144	VR-SMD;4.7KOHM,25%,0.15W,TOP	
VRA7	2104-000115	VR-SMD;1KOHM,25%,0.15W,TOP	
VRA8	2104-000144	VR-SMD;4.7KOHM,25%,0.15W,TOP	
XA5	2801-003495	CRYSTAL-UNIT;4.25MHZ,30PPM,28-AAM,16PF,1	
670	**AC93-10825A**	**ASSY-TIMER;SV-4000W,WORLD WIDE 2**	
C701	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C702	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C703	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3	
C704	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C705	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
C706	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V	
C707	2202-000243	C-CERAMIC,MLC-AXIAL;33PF,5%,50V,SL,3.5X1	
C708	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C709	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C710	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X1	
C711	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
C712	2202-000850	C-CERAMIC,MLC-AXIAL;2.2NF,30%,16V,Y5R,TP	
C713	2202-000850	C-CERAMIC,MLC-AXIAL;2.2NF,30%,16V,Y5R,TP	
C714	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C715	2201-000681	C-CERAMIC,DISC;82PF,5%,50V,SL,TP,5X3,5	
C716	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
CN701	3710-000545	CONNECTOR-SOCKET;20P,1R,1.5MM,STRAIGHT,S	
CN702	3711-001061	CONNECTOR-HEADER;BOX,6P,1R,2MM,ANGLE,SN	
CN703	3711-002597	CONNECTOR-HEADER;NOWALL,9P,2R,1.5MM,STRA	
CN704	3711-002597	CONNECTOR-HEADER;NOWALL,9P,2R,1.5MM,STRA	
D701	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D702	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D703	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D704	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D705	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D709	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D710	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
DT701	AC07-20050Y	VF-DISPLAY;SVV-12MM09,16SEG,103 X 13.25,	
IC701	1003-001039	IC-VFD;UPD16311GC-AB6,QFP,52P,-,-,-40	
JK701	3722-000438	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
JK702	AC37-22001T	JACK-PIN;DSPS-8805-03W,PI4,3P,GLD,-	
JK703	3722-000435	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
L701	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L702	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L703	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
LD701	62309-110-340	LED;GL-3HD7/GL3HD8	
Q701	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-	
R701	2004-000292	R-METAL;12OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R702	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R703	2004-000790	R-METAL;330ohm,5%,1/4W,AA,TP,2.4x6.4mm	
R704	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc.No	Part No	Desc & Spec	Remark
R705	2001-000633	R-CARBON;30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R706	61048-177-563	R-CARBON;RD 1/8 T 563-J	
R707	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R708	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R709	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R710	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R711	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R712	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R713	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R714	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R715	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R716	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R717	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R718	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R719	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R720	2001-000325	R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RM701	AC59-62001G	MODULE-REMOCON;TFMR5380,38KHZ,-,-,-,-	
SW701	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW702	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW703	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW704	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW705	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW706	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW707	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW708	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW709	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW710	3408-000261	SWITCH-SLIDE;50V,300MA,-,-	
ZD701	0403-000357	DIODE-ZENER;UZ5.6BM,5.6V,5.4-5.8V,500MW	
ZD702	0403-000555	DIODE-ZENER;MTZ30D,30V,29.02-30.51V,500M	
671	**69315-302-201**	**ASSY JOINT;SV-300W**	
CN8J00	3708-000209	CONNECTOR-FPC/FC/PIC;20P,1.25MM,N,P-BRON	
CN8J01	3710-000531	CONNECTOR-HEADER;9P,1R,1.5MM,STRAIGHT,SN	
CN8J02	3710-000531	CONNECTOR-HEADER;9P,1R,1.5MM,STRAIGHT,SN	
672	**AC93-10825B**	**ASSY-FUNCTION;SV-4000W,WORLD WIDE 2**	
C802	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,	
CN801	3708-000204	CONNECTOR-FPC/FC/PIC;20P,1.25MM,N,P-BRON	
D801	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D802	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
D803	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,	
IC801	AC14-12001X	IC;M5481,-,-	
LD801	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD802	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD803	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD804	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD805	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD806	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD807	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD808	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD811	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD812	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD813	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD814	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD815	0601-000497	LED;ROUND,GRN,3MM,565NM	
LD816	0601-000497	LED;ROUND,GRN,3MM,565NM	
R801	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R802	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R803	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R804	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R805	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R806	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc.No	Part No	Desc & Spec	Remark
R807	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R808	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R809	2001-000302	R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R811	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R812	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R813	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R814	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R815	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R816	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SW801	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW802	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW803	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW804	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW805	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW806	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW807	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW808	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW809	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW810	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW811	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW812	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW813	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW814	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW815	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW816	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW817	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW818	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW819	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
SW820	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM	
WA801	B6032-0048	WIRE-PLATE;20/57 UL2896 BLK BANDO CARD/1	
ZD801	0403-000558	DIODE-ZENER;MTZ5.6C,5.6V,5.61-5.91V,500M	
ZD802	0403-000558	DIODE-ZENER;MTZ5.6C,5.6V,5.61-5.91V,500M	
ZD803	0403-000558	DIODE-ZENER;MTZ5.6C,5.6V,5.61-5.91V,500M	

MEMO

9. Block Diagrams

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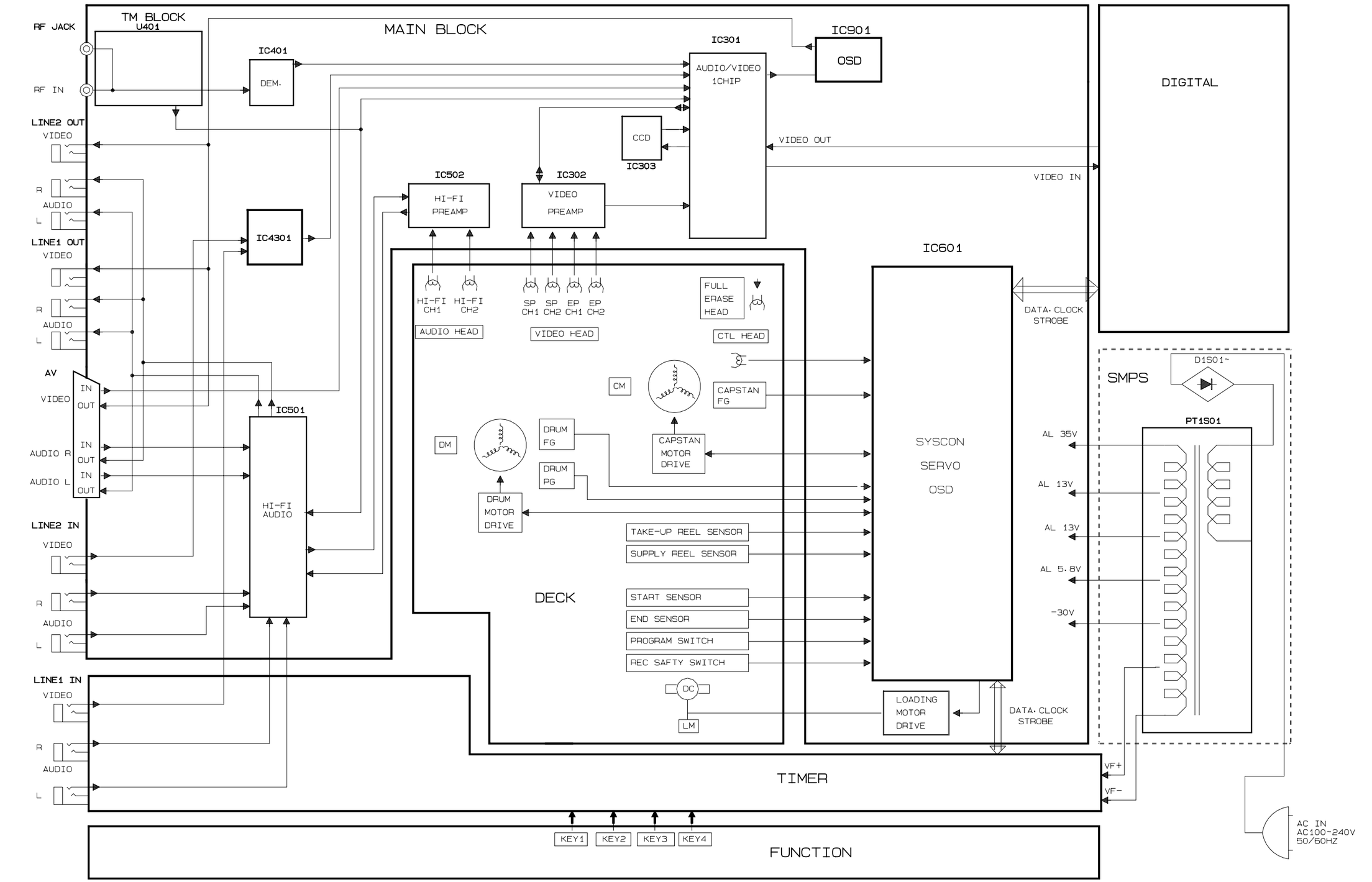
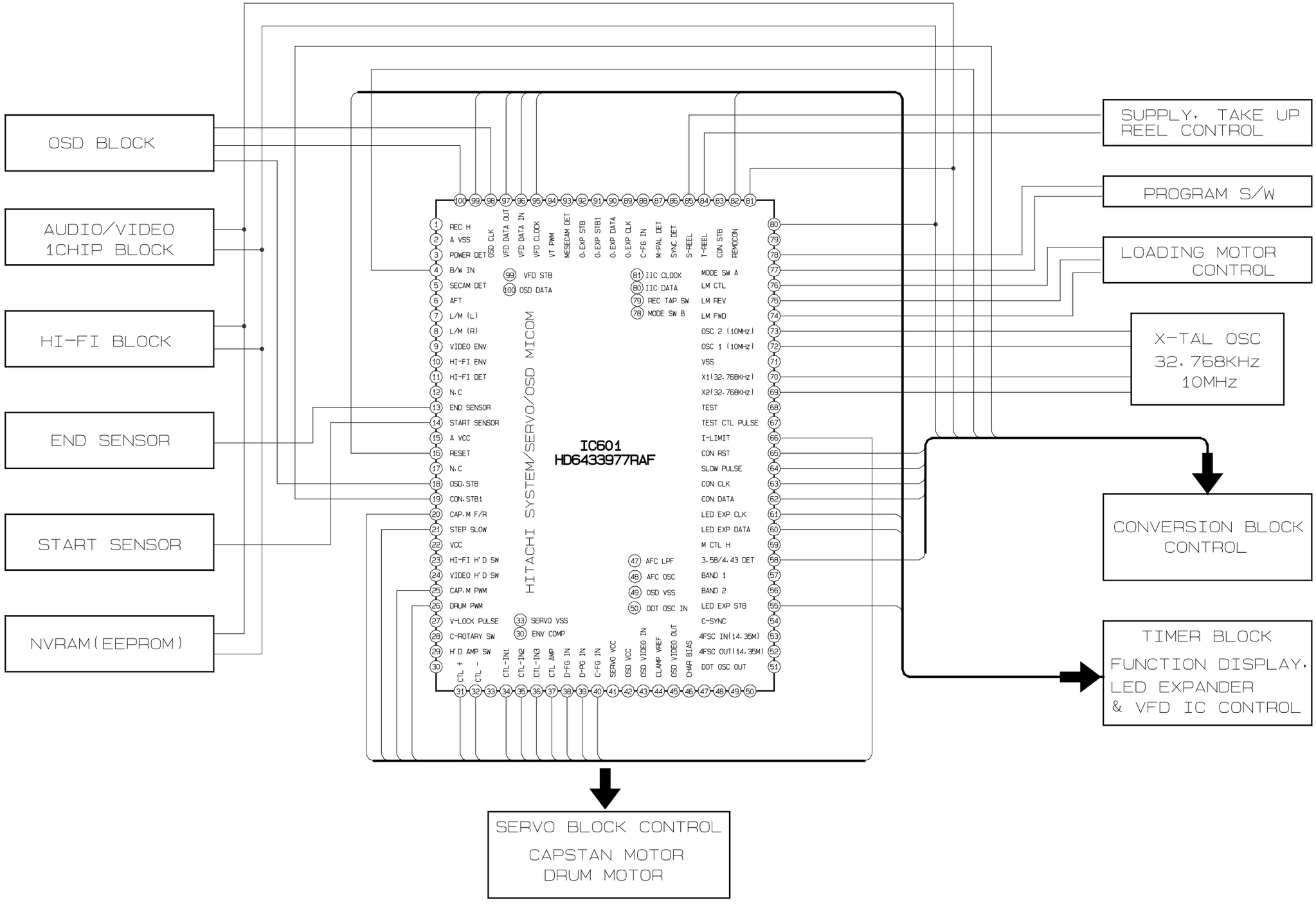
9-5	Function-Timer	9-6

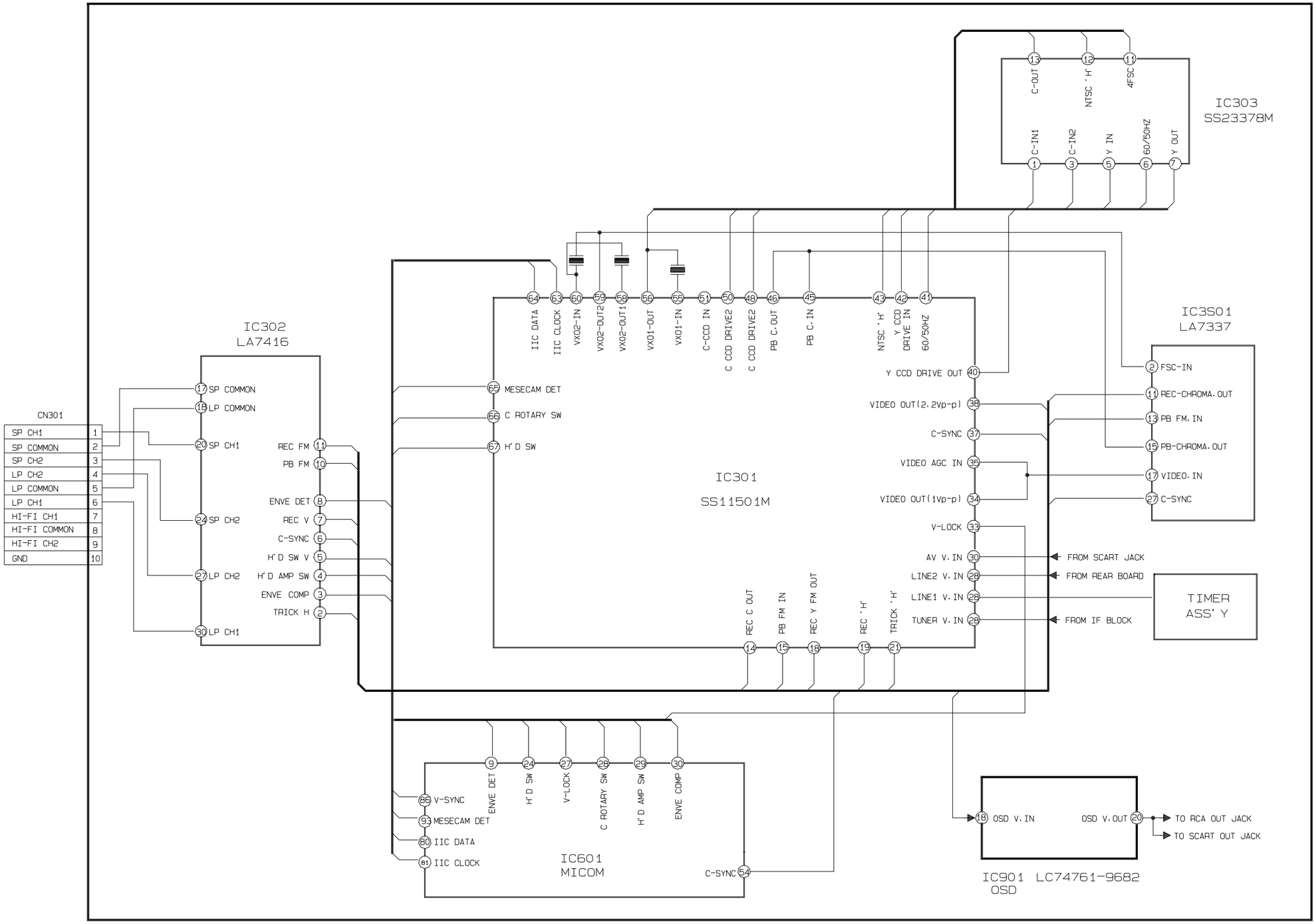
9-1 Overall Block Diagram



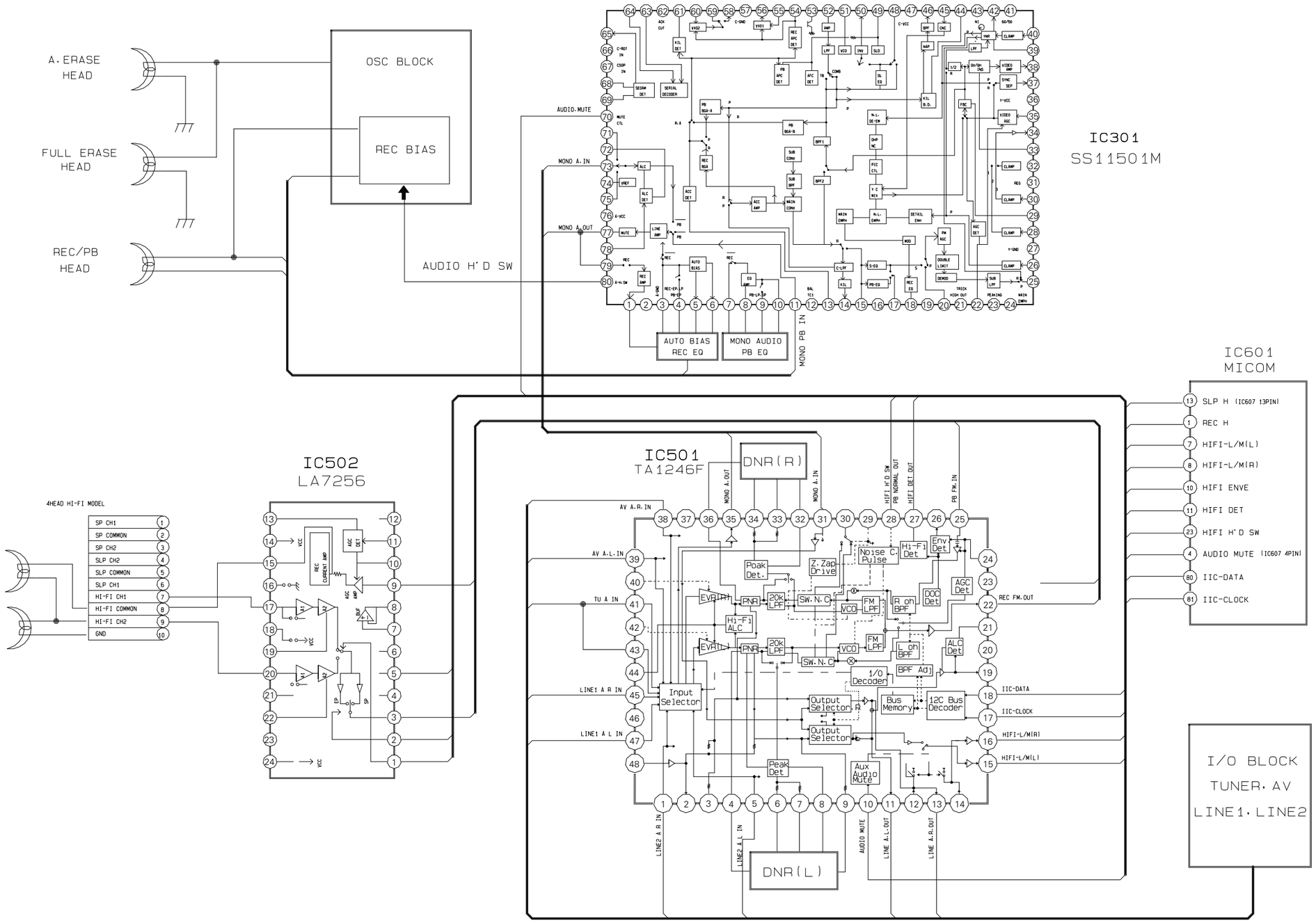
9-2 System Control



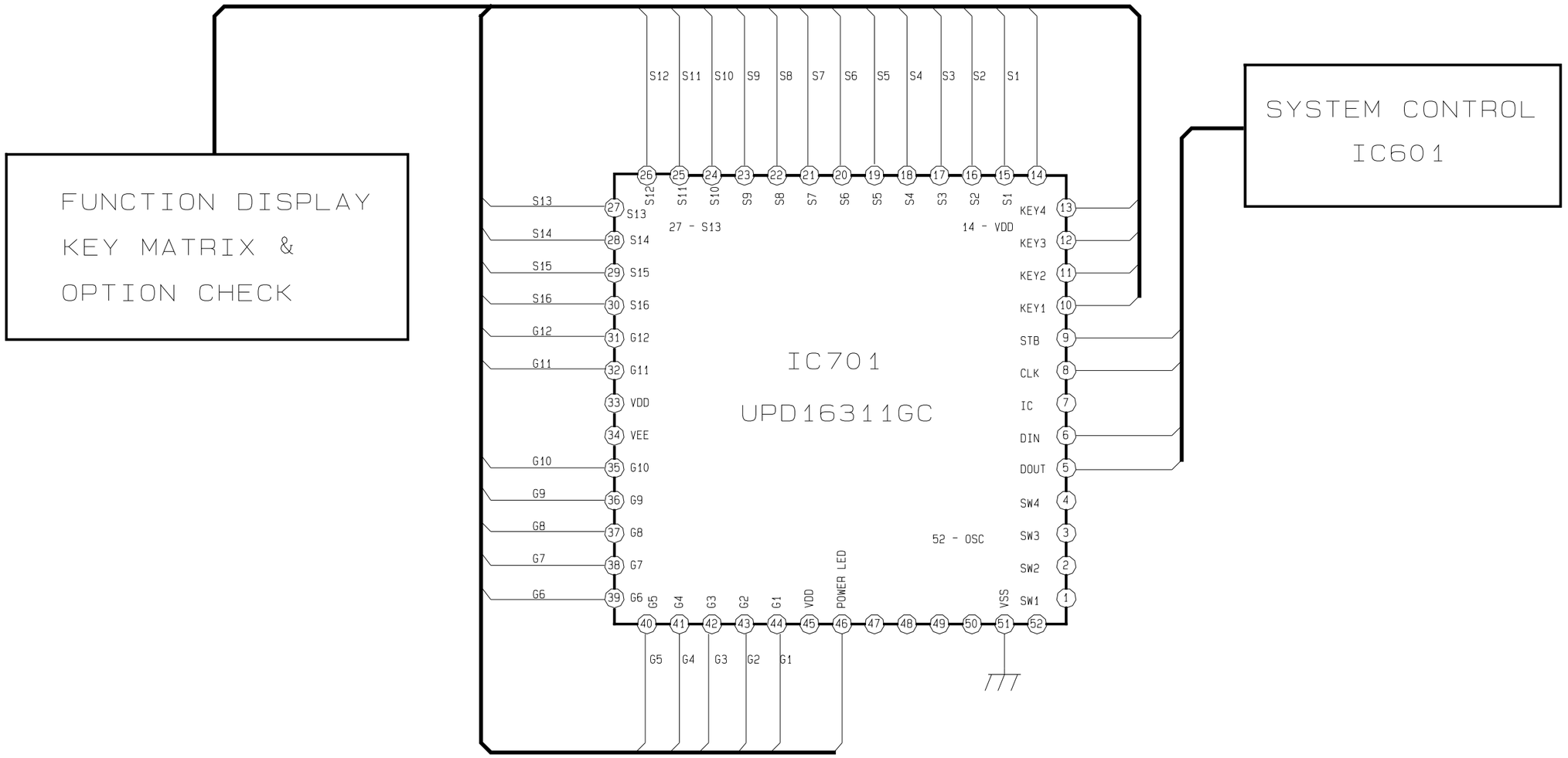
9-3 Video


IC303
SS23378M
C-OUT
NTSC 'H'
4FSC
C-IN1
C-IN2
Y IN
60/50HZ
Y OUT
IC302
LA7416
IC3S01
LA7337
IC301
SS11501M
IIC DATA
IIC CLOCK
VXO2-IN
VXO2-OUT2
VXO2-OUT1
VXO1-OUT
VXO1-IN
C-CCD IN
C CCD DRIVE2
C CCD DRIVE2
PB C.OUT
PB C.IN
NTSC 'H'
Y CCD DRIVE IN
60/50HZ
Y CCD DRIVE OUT
VIDEO OUT(2.2Vp-p)
C-SYNC
VIDEO AGC IN
VIDEO OUT(1Vp-p)
V-LOCK
AV V.IN
LINE2 V.IN
LINE1 V.IN
TUNER V.IN
FSC-IN
REC-CHROMA.OUT
PB FM.IN
PB-CHROMA.OUT
VIDEO.IN
C-SYNC
FROM SCART JACK
FROM REAR BOARD
FROM IF BLOCK
TIMER
ASS'Y
MESECAM DET
C ROTARY SW
H'D SW
REC FM
PB FM
ENVE DET
REC V
C-SYNC
H'D SW V
H'D AMP SW
ENVE COMP
TRICK H
SP COMMON
LP COMMON
SP CH1
SP CH2
LP CH2
LP CH1
REC C OUT
PB FM IN
REC Y FM OUT
REC 'H'
TRICK 'H'
CN301
SP CH1
SP COMMON
SP CH2
LP CH2
LP COMMON
LP CH1
HI-FI CH1
HI-FI COMMON
HI-FI CH2
GND
V-SYNC
MESECAM DET
IIC DATA
IIC CLOCK
ENVE DET
H'D SW
V-LOCK
C ROTARY SW
H'D AMP SW
ENVE COMP
C-SYNC
IC601
MICOM
OSD V.IN
OSD V.OUT
TO RCA OUT JACK
TO SCART OUT JACK
IC901 LC74761-9682
OSD

9-4 Hi-Fi


A. ERASE HEAD
FULL ERASE HEAD
REC/PB HEAD
OSC BLOCK
REC BIAS
AUDIO H'D SW
AUDIO MUTE
MONO A.IN
MONO A.OUT
AUTO BIAS REC EQ
MONO AUDIO PB EQ
MONO PB IN
IC301
SS11501M
IC601
MICOM
SLP H (IC607 13PIN)
REC H
HIFI-L/M(L)
HIFI-L/M(R)
HIFI ENVE
HIFI DET
HIFI H'D SW
AUDIO MUTE (IC607 4PIN)
IIC-DATA
IIC-CLOCK
IC502
LA7256
4HEAD HI-FI MODEL
SP CH1
SP COMMON
SP CH2
SLP CH2
SLP COMMON
SLP CH1
HI-FI CH1
HI-FI COMMON
HI-FI CH2
GND
IC501
TA1246F
DNR(R)
DNR(L)
AV A.R.IN
AV A.L.IN
TU A IN
LINE1 A R IN
LINE1 A L IN
LINE2 A R IN
LINE2 A L IN
REC FM.OUT
HIFI-L/M(R)
HIFI-L/M(L)
I/O BLOCK
TUNER. AV
LINE1. LINE2

9-5 Function-Timer



10. PCB Diagrams

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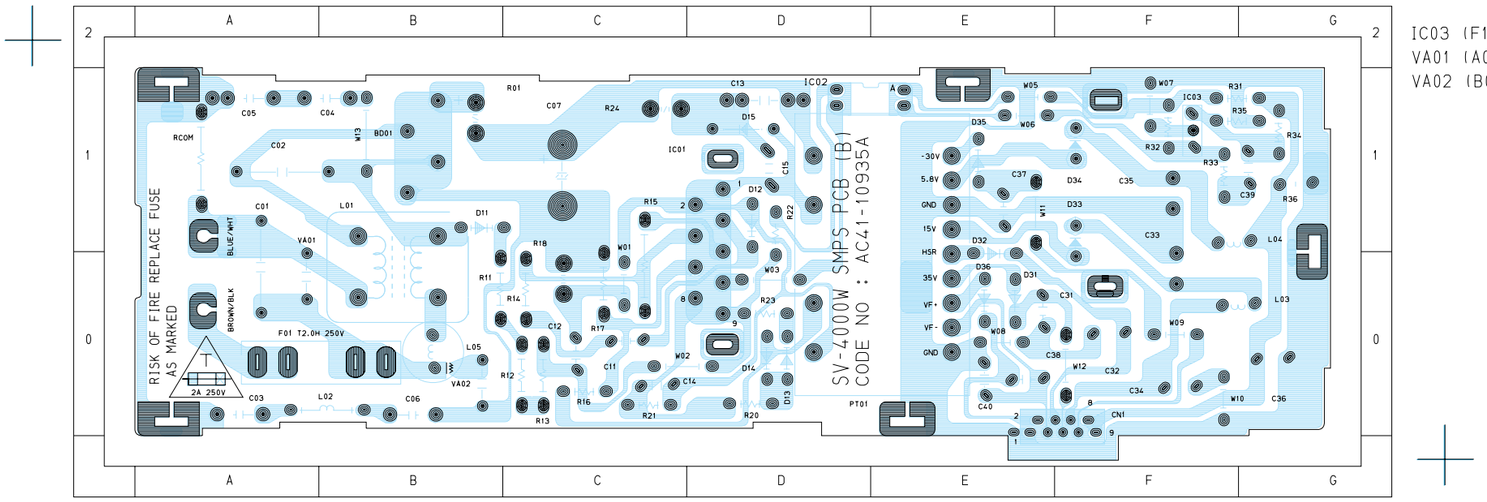
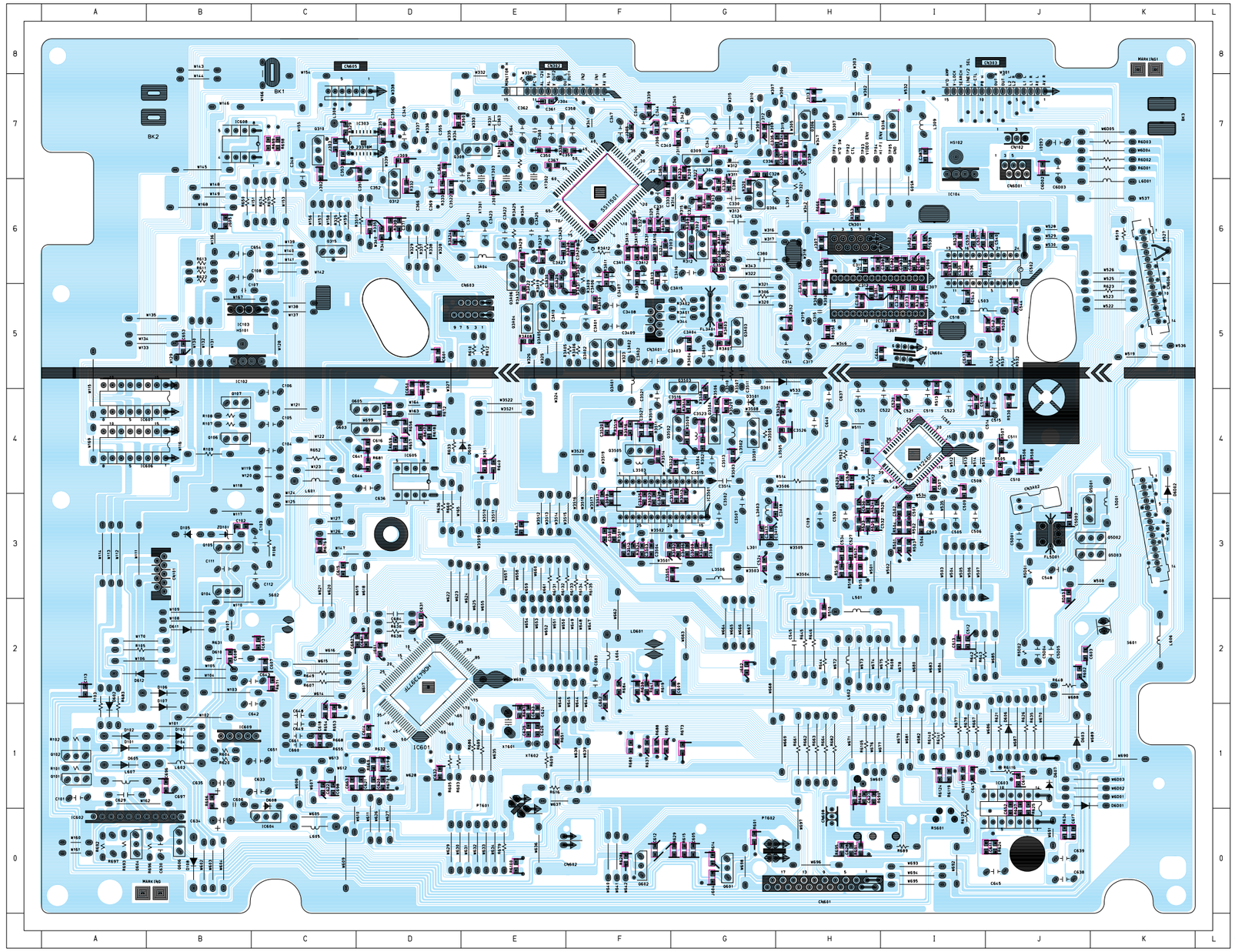
10-1 SMPS


IC03 (F1)
VA01 (A0)
VA02 (B0)
SV-4000W SMPS PCB (B)
CODE NO : AC41-10935A
RISK OF FIRE REPLACE FUSE AS MARKED
2A 250V
F01 T2.0H 250V
BLUE/WHT
BROWN/BLK
RCOM
-30V
5.8V
GND
15V
H5R
35V
VF-
VF-
GND

10-2 Main

: Chip Parts

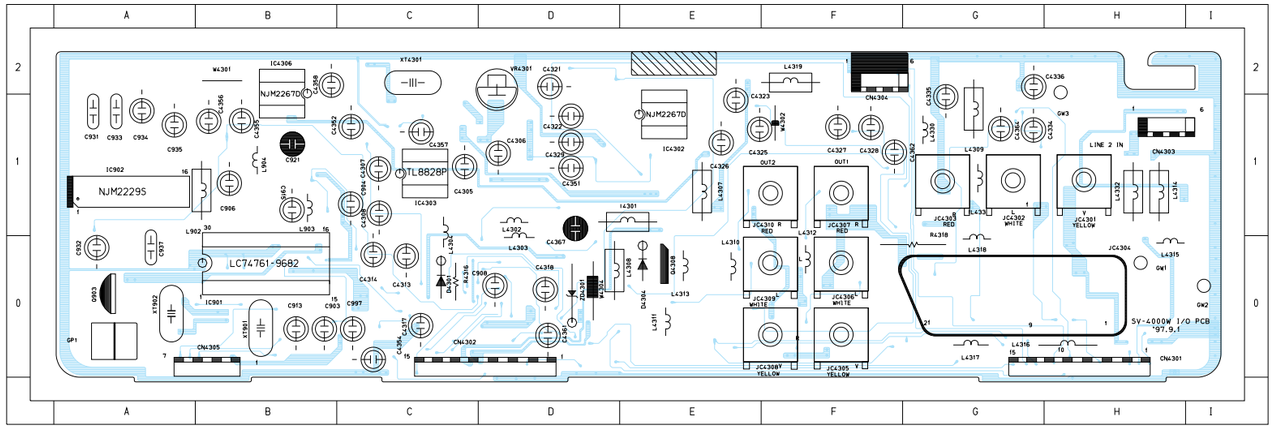


CN102 (J7)
CN3A01 (F5)
CN601 (G0)
CN603 (E5)
CN604 (I5)
CN605 (D7)
CN608 (H0)
CN6D01 (J7)
IC103 (B5)
IC301 (F6)
IC302 (I6)
IC303 (D7)
IC3S01 (F3)
IC501 (I4)
IC502 (J6)
IC603 (J1)
IC604 (C0)
IC605 (D4)
IC606 (B4)
IC607 (B5)
IC608 (C7)
IC609 (B1)
S601 (K2)
S602 (C2)
XT301 (E6)
XT302 (E7)
XT303 (E6)
XT601 (E1)
XT602 (E1)
ZD101 (B3)

Q101 (A1)
Q102 (A1)
Q104 (B3)
Q105 (B3)
Q106 (B4)
Q107 (B4)
Q302 (G6)
Q303 (G6)
Q304 (G6)
Q306 (H7)
Q307 (H7)
Q308 (E7)
Q309 (G7)
Q310 (C7)
Q312 (D6)
Q315 (C6)
Q316 (I7)
Q3A01 (F5)
Q3A02 (F5)
Q3A03 (G5)
Q3A04 (E5)
Q3A05 (E5)
Q3A06 (E6)
Q3S01 (G4)
Q3S02 (G4)
Q3S03 (G5)
Q3S04 (G4)
Q3S05 (F4)
Q5D01 (J3)
Q5D02 (K3)
Q5D03 (K3)
Q601 (G0)
Q602 (F0)
Q603 (D4)
Q604 (A0)
Q605 (D4)
Q606 (B0)

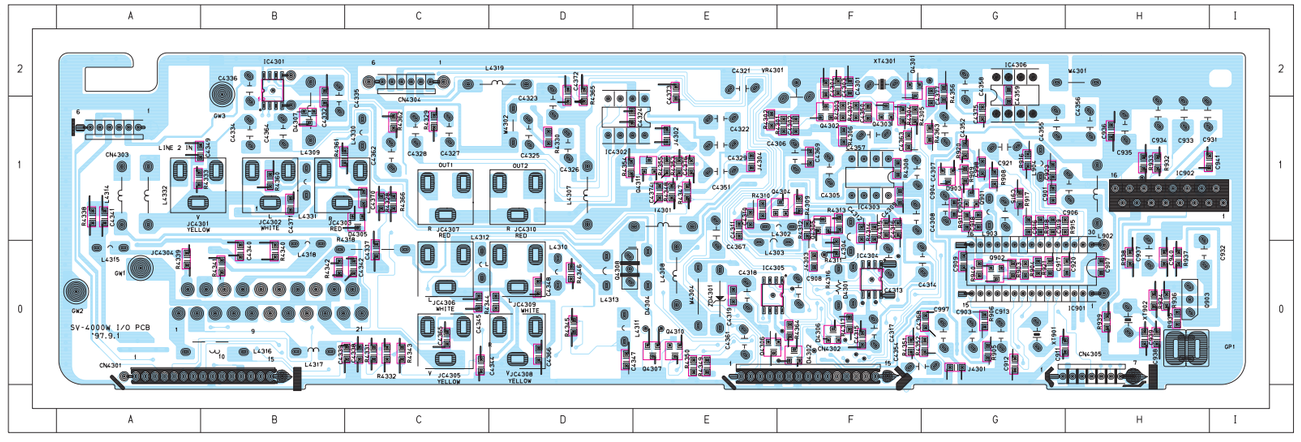
10-3 I/O

: Chip Parts



CN4301 (H0)
CN4302 (C0)
CN4303 (H1)
CN4304 (F2)
CN4305 (B0)
IC4302 (E1)
IC4303 (C1)
IC4306 (B2)
IC901 (B0)
IC902 (A1)
JC4301 (H1)
JC4302 (G1)
JC4303 (G1)
JC4304 (H0)
JC4305 (F0)
JC4306 (F0)
JC4307 (F1)
JC4308 (F0)
JC4309 (F0)
JC4310 (F1)
Q4308 (E0)
Q903 (A0)
VR4301 (D2)
XT4301 (C2)
XT901 (B0)
XT902 (A0)
ZD4301 (D0)

(Component Side)

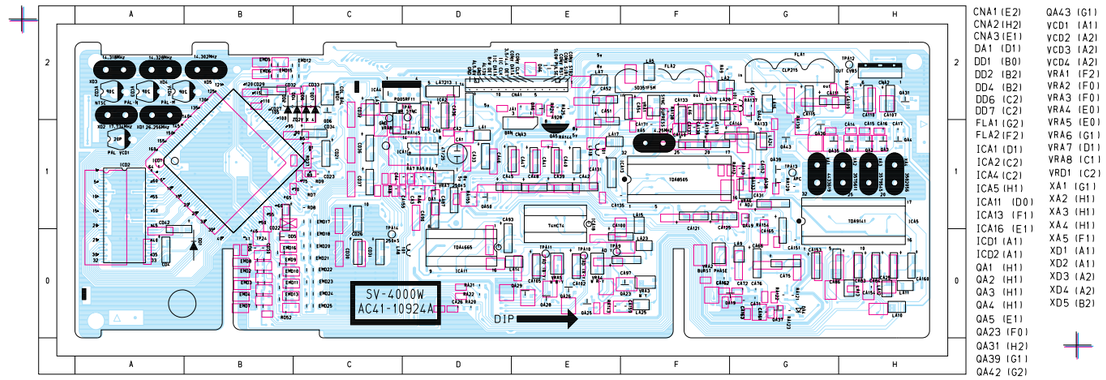


CN4301 (A0)
CN4302 (E0)
CN4303 (A1)
CN4304 (C2)
CN4305 (G0)
IC4301 (B2)
IC4302 (E1)
IC4303 (F1)
IC4304 (F0)
IC4305 (E0)
IC4306 (G1)
IC901 (H0)
IC902 (I1)
JC4301 (B1)
JC4302 (B1)
JC4303 (A1)
JC4305 (C0)
JC4306 (C0)
JC4307 (C0)
JC4308 (D0)
JC4309 (D0)
JC4310 (D0)
Q4301 (F2)
Q4302 (F1)
Q4303 (F1)
Q4304 (F1)
Q4305 (F1)
Q4306 (E0)
Q4307 (E0)
Q4308 (D0)
Q4310 (E0)
Q4311 (E1)
Q901 (G1)
Q902 (G0)
Q903 (H0)
XT4301 (F2)
XT901 (G0)
XT902 (H0)
ZD4301 (E0)

(Conductor Side)

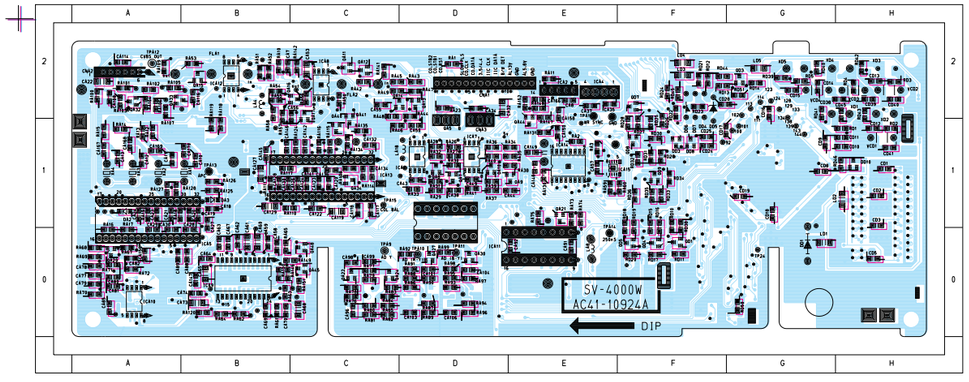
10-4 Digital

: Chip Parts



CNA1 (E2)
CNA2 (H2)
CNA3 (E1)
DA1 (D1)
DD1 (B0)
DD2 (B2)
DD4 (B2)
DD6 (C2)
DD7 (C2)
FLA1 (G2)
FLA2 (F2)
ICA1 (D1)
ICA2 (C2)
ICA4 (C2)
ICA5 (H1)
ICA11 (D0)
ICA13 (F1)
ICA16 (E1)
ICD1 (A1)
ICD2 (A1)
QA1 (H1)
QA2 (H1)
QA3 (H1)
QA4 (H1)
QA5 (E1)
QA23 (F0)
QA31 (H2)
QA39 (G1)
QA42 (G2)
QA43 (G1)
VCD1 (A1)
VCD2 (A2)
VCD3 (A2)
VCD4 (A2)
VRA1 (F2)
VRA2 (F0)
VRA3 (F0)
VRA4 (E0)
VRA5 (E0)
VRA6 (G1)
VRA7 (D1)
VRA8 (C1)
VRD1 (C2)
XA1 (G1)
XA2 (H1)
XA3 (H1)
XA4 (H1)
XA5 (F1)
XD1 (A1)
XD2 (A1)
XD3 (A2)
XD4 (A2)
XD5 (B2)

(Component Side)

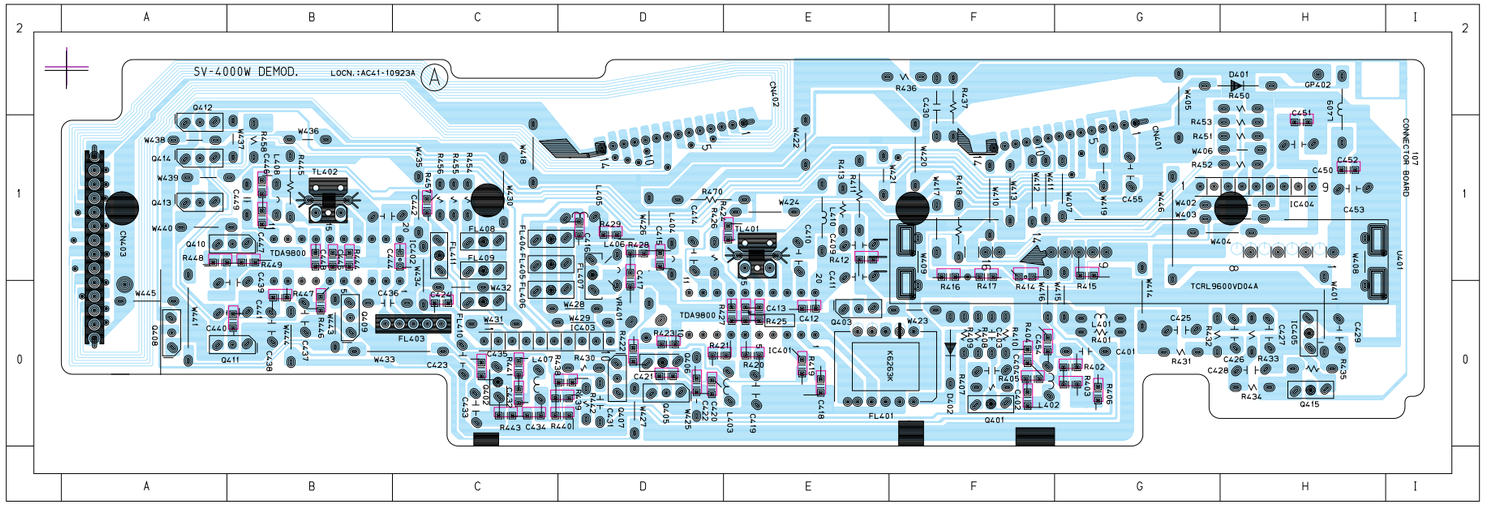


DA2 (A1)
DA3 (B1)
DD10 (H1)
DD3 (F1)
DD8 (F1)
ICA10 (A0)
ICA12 (B2)
ICA14 (E1)
ICA15 (E1)
ICA6 (D1)
ICA7 (D1)
ICA8 (C2)
ICA9 (B0)
QA10 (D1)
QA11 (C2)
QA12 (C2)
QA13 (D2)
QA14 (D2)
QA15 (B2)
QA16 (C2)
QA17 (C2)
QA20 (A0)
QA21 (E1)
QA22 (C0)
QA24 (C0)
QA27 (D0)
QA30 (D0)
QA32 (A2)
QA33 (A2)
QA34 (C1)
QA40 (C1)
QA41 (C1)
QA44 (E1)
QA45 (C0)
QA48 (C0)
QA7 (D1)
QA8 (D1)
QA9 (E1)
QD1 (F0)
QD3 (G2)
QD4 (F0)
QD5 (F0)
QD7 (F2)
QD8 (F1)
QD9 (F1)

(Conductor Side)

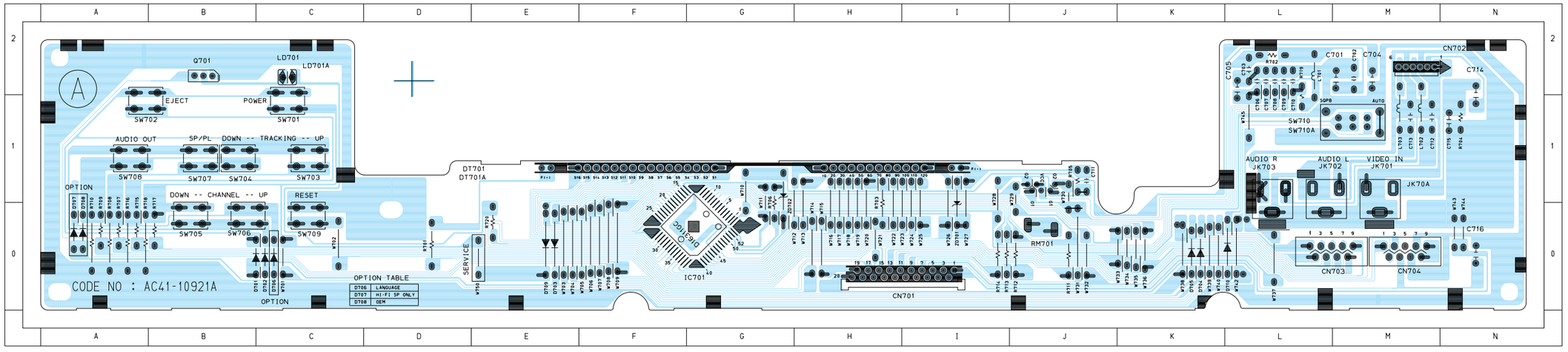
10-5 IF

: Chip Parts



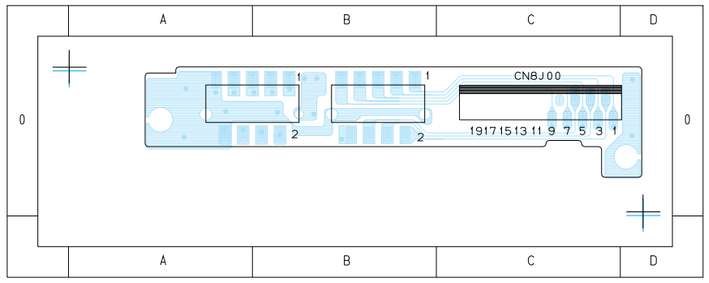
CN401 (G2)
CN402 (E2)
CN403 (A1)
D401 (H2)
D402 (F0)
IC401 (E0)
IC402 (C1)
IC403 (C0)
IC404 (G1)
Q403 (E0)
Q405 (D0)
Q407 (D0)
Q408 (A0)
Q409 (B0)
Q410 (B1)
Q411 (B0)
Q412 (A1)
Q413 (A1)
Q414 (A1)

10-6 Timer

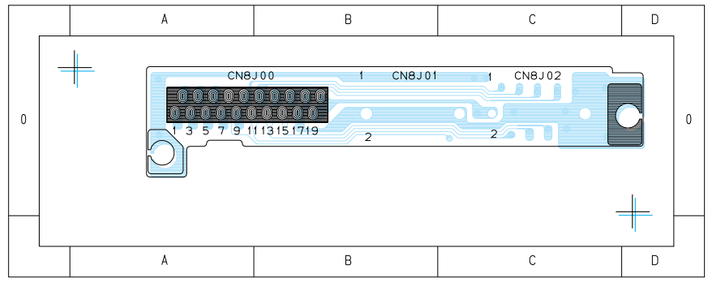


CN702 (M2)
CN703 (L0)
CN704 (M0)
IC701 (G0)
JK701 (M0)
JK702 (L0)
Q701 (B2)
ZD701 (I0)
ZD702 (G0)

10-7 Joint

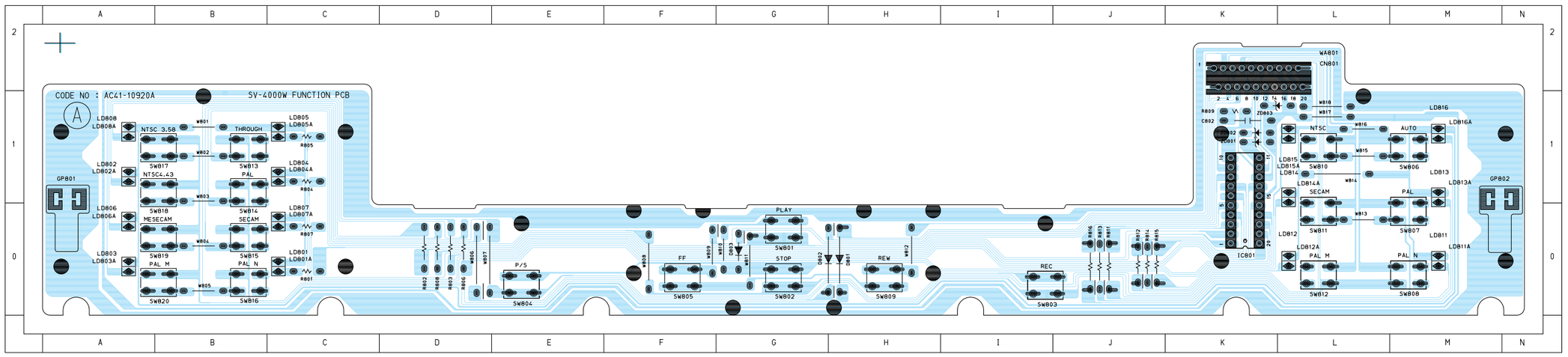


(Component Side)



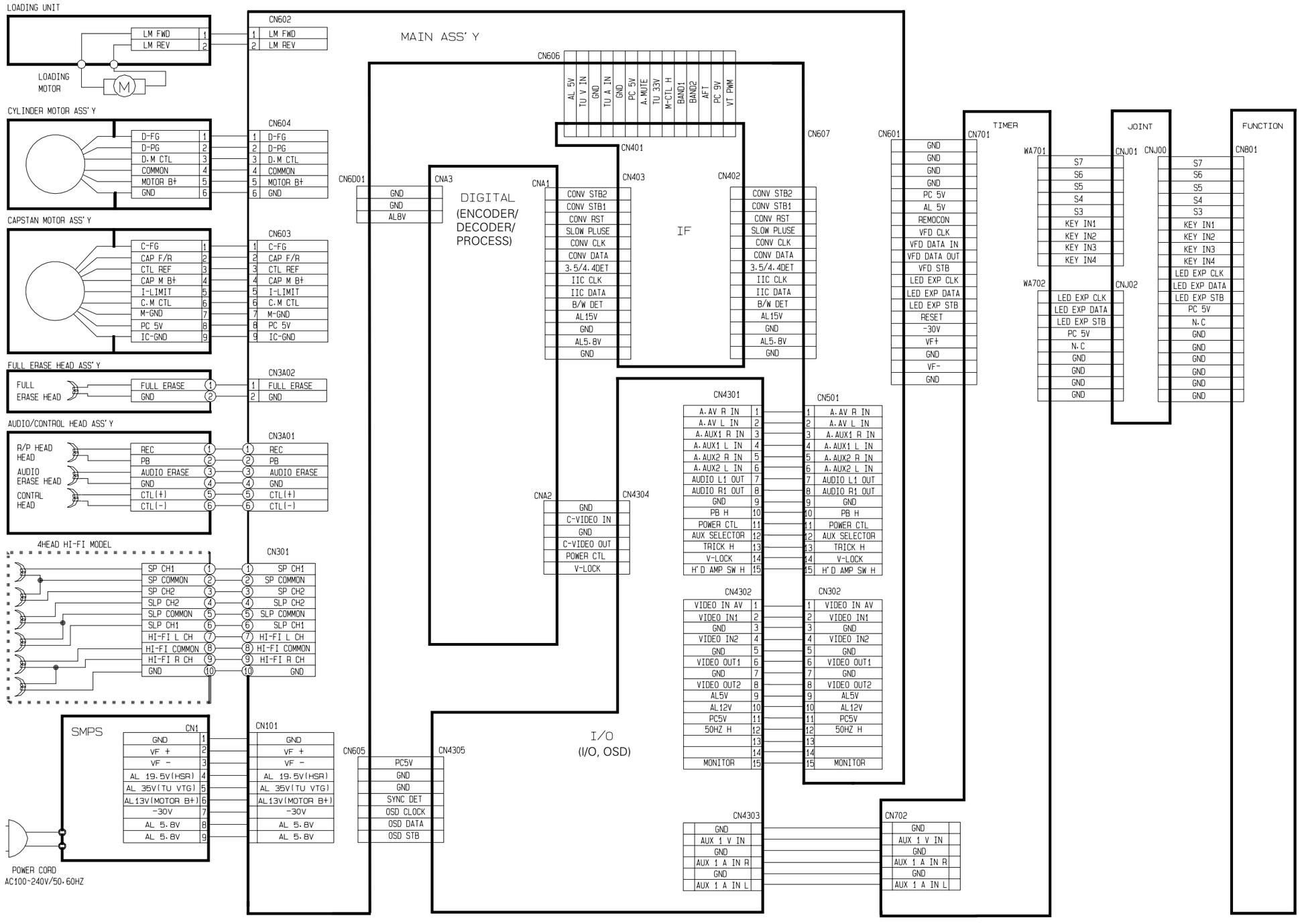
(Conductor Side)

10-8 Function



D801 (H0)
D802 (H0)
D803 (G0)
IC801 (K0)
ZD801 (K1)
ZD802 (K1)
ZD803 (K1)

11. Wiring Diagram



12. Schematic Diagrams

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12-4	System Control/Servo	12-6
12-5	Audio/Video	12-8
12-6	Hi-Fi Audio	12-10
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12-8	IF	12-13
12-9	OSD	12-14
12-10	I/O	12-16
12-11	Process	12-17
12-12	Decoder	12-18
12-13	Encoder	12-20
12-14	Timer	12-22
12-15	Joint/Function	12-23

Note

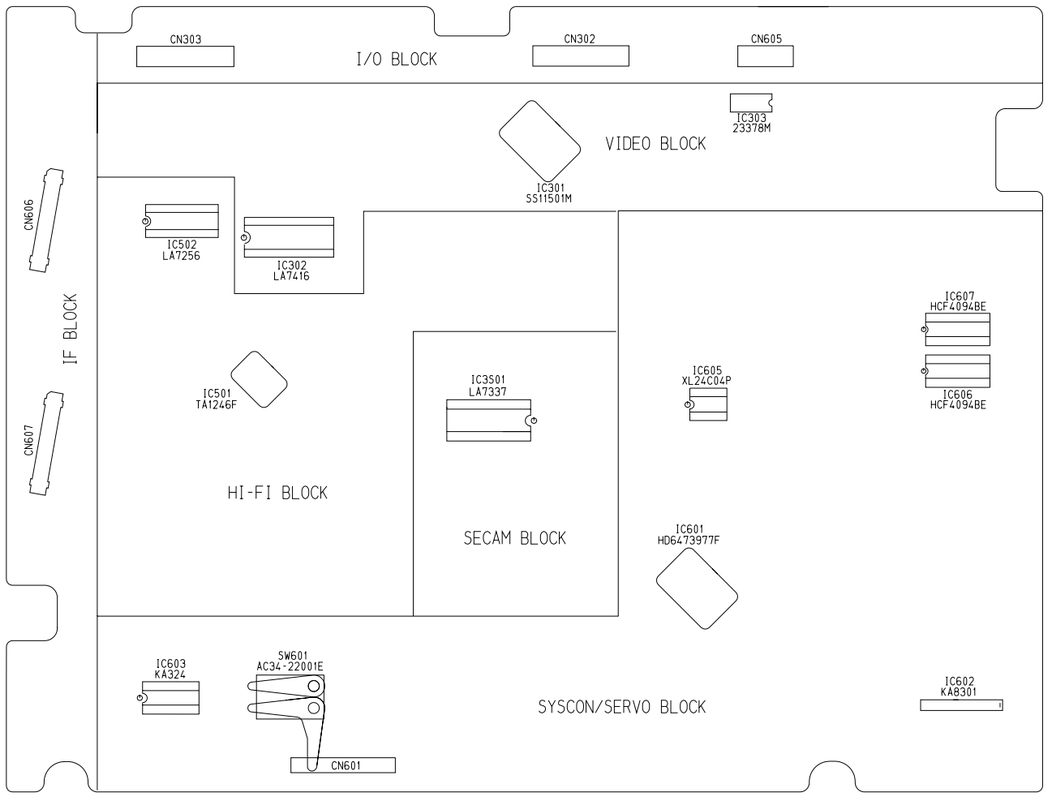
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.
- Circled numbers refer to waveforms.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the “electrostatically sensitive (ES) devices” section of this service manual.

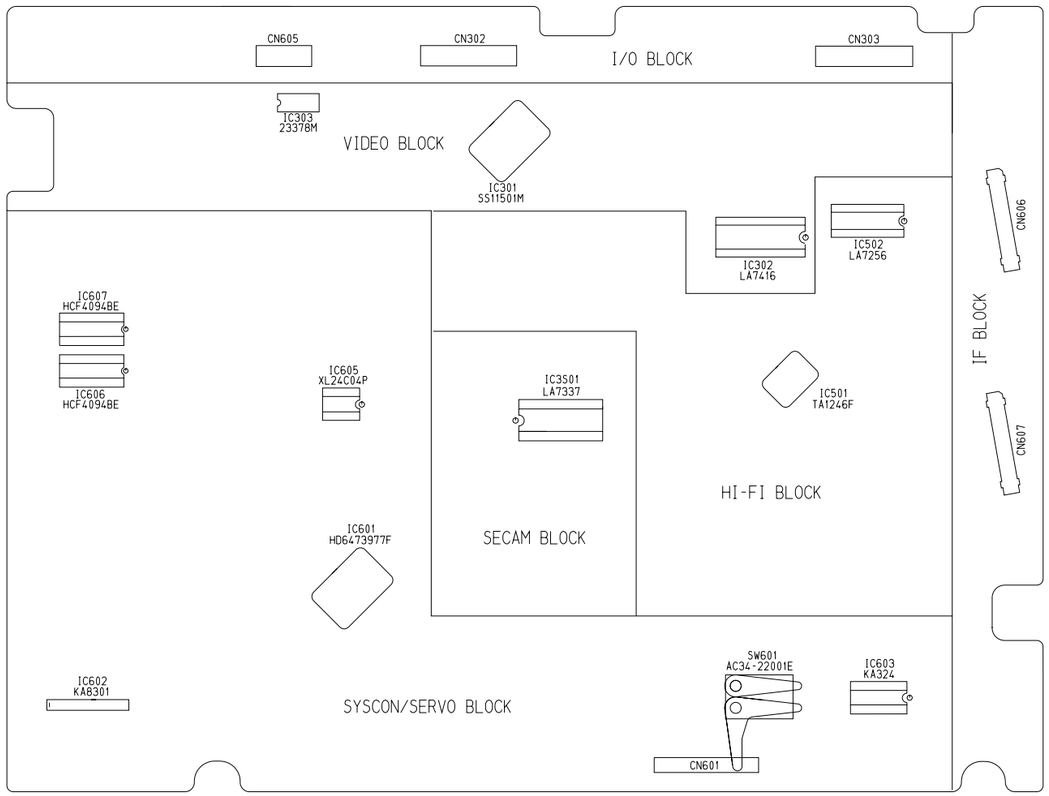
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

◆ Block Identification of Main PCB

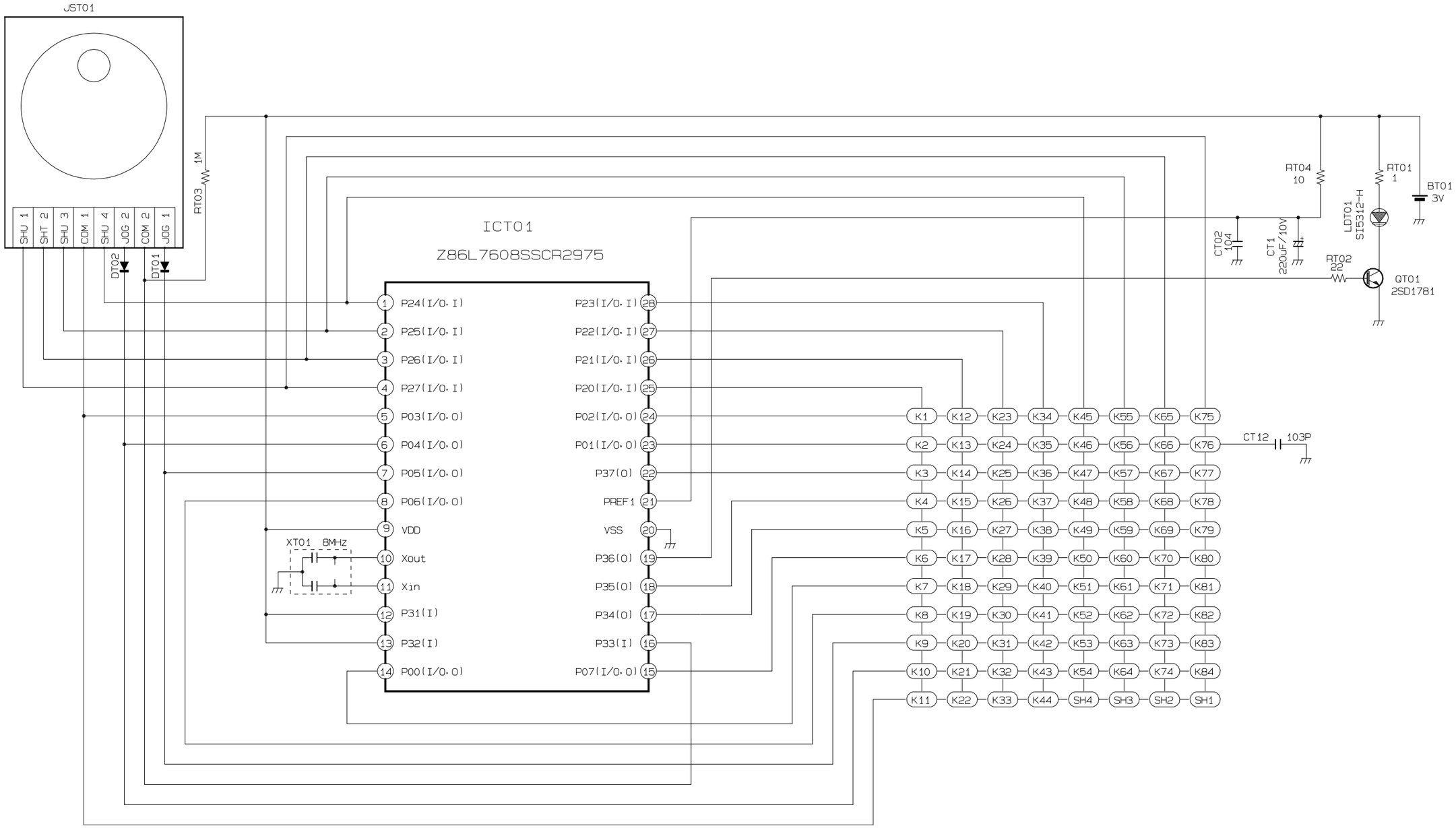


(Component Side)

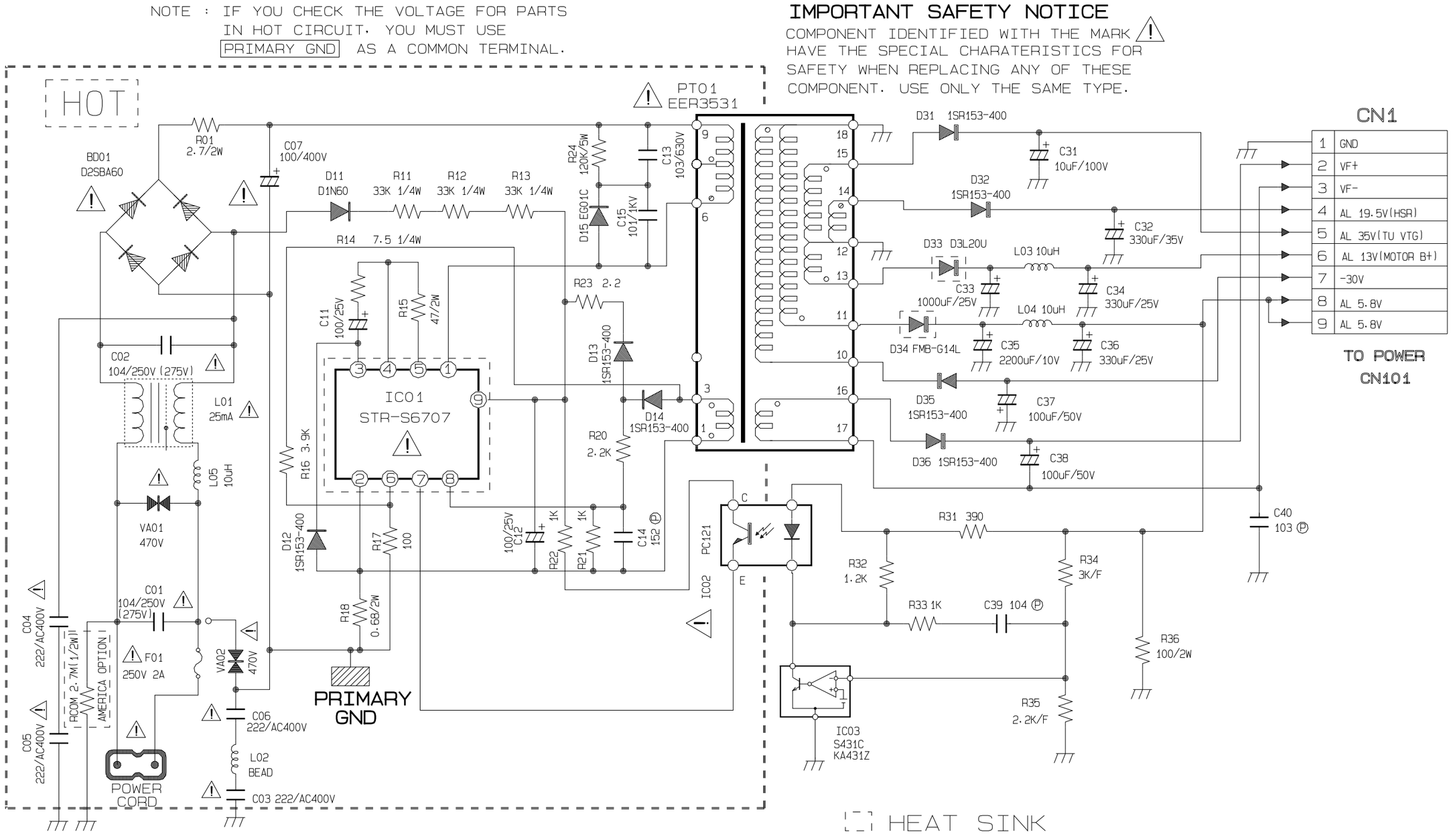


(Conductor Side)

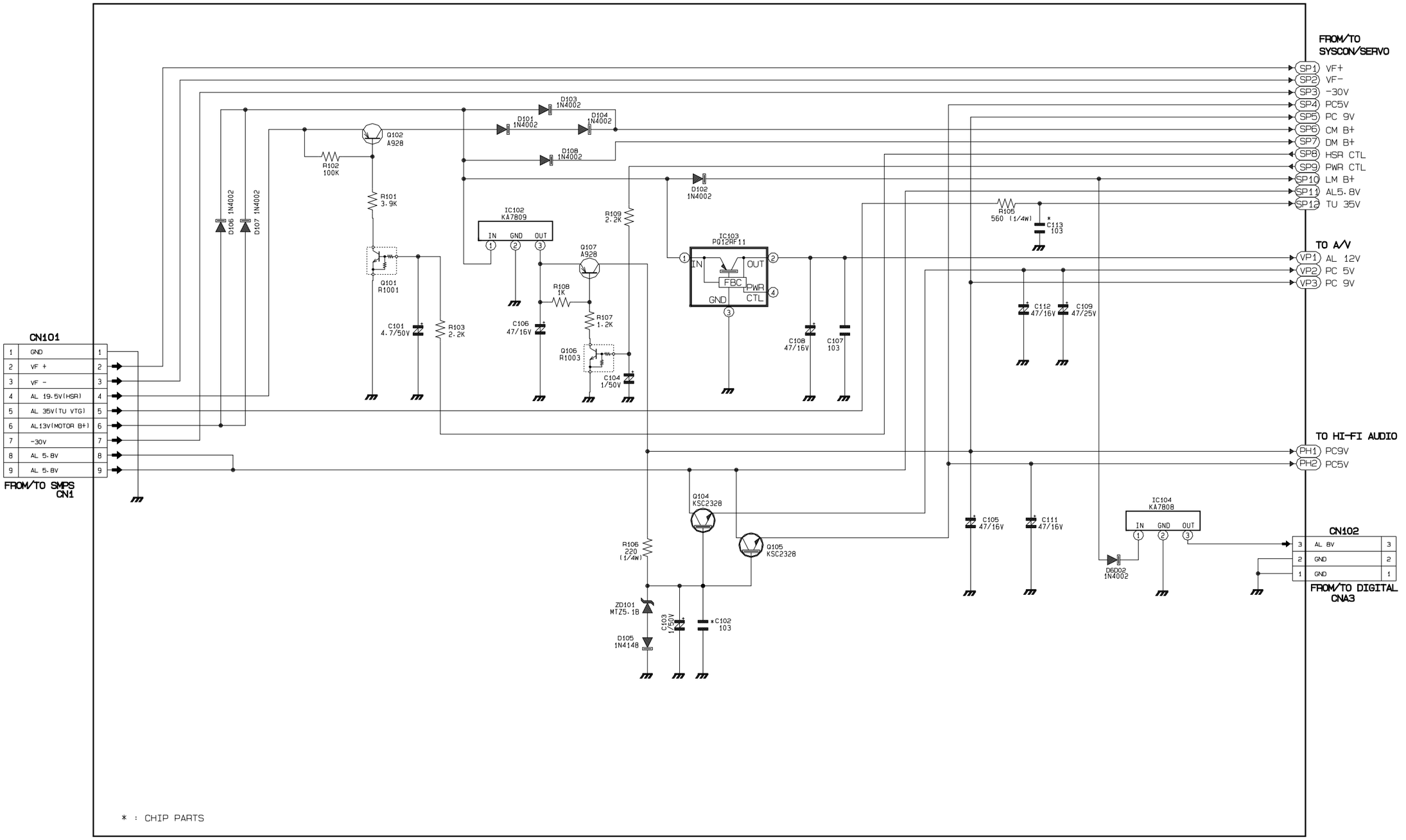
12-1 Remote Control



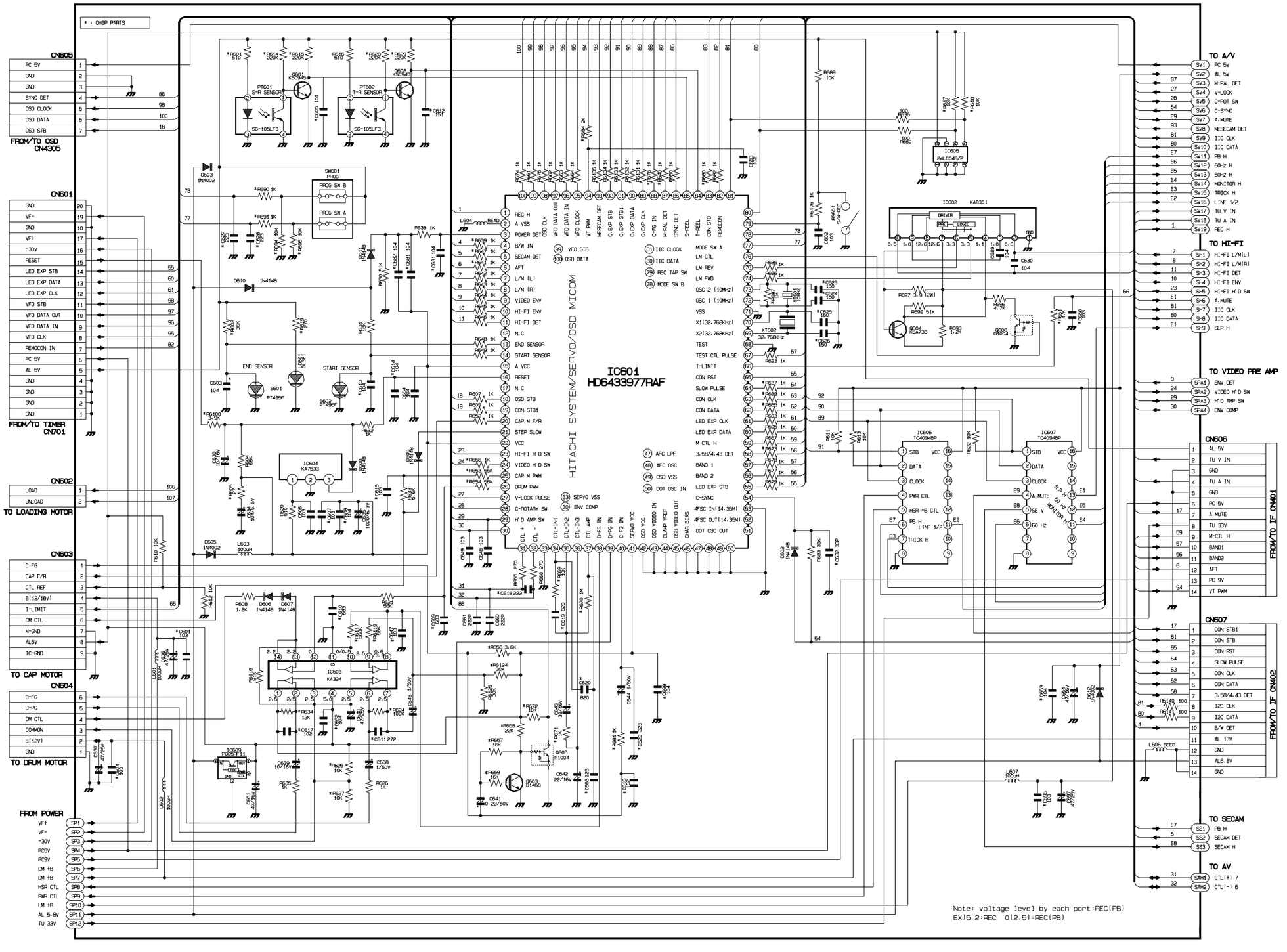
12-2 SMPS


NOTE : IF YOU CHECK THE VOLTAGE FOR PARTS IN HOT CIRCUIT. YOU MUST USE PRIMARY GND AS A COMMON TERMINAL.
IMPORTANT SAFETY NOTICE
COMPONENT IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARATERISTICS FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENT. USE ONLY THE SAME TYPE.
HOT
PTO1 EER3531
BD01 D2SBA60
R01 2.7/2W
C07 100/400V
D11 D1N60
R11 33K 1/4W
R12 33K 1/4W
R13 33K 1/4W
R24 120K/5W
C13 103/630V
D15 EG01C
C15 101/1KV
R14 7.5 1/4W
R23 2.2
C11 100/25V
R15 47/2W
D13 1SR153-400
ICO1 STR-S6707
D14 1SR153-400
R20 2.2K
R16 3.9K
D12 1SR153-400
R17 100
C12 100/25V
R22 1K
R21 1K
C14 152 Ⓟ
R18 0.68/2W
PRIMARY GND
PC121
IC02
C02 104/250V (275V)
L01 25mA
L05 10uH
VA01 470V
C01 104/250V (275V)
C04 222/AC400V
C05 222/AC400V
RCOM 2.7M(1/2W) AMERICA OPTION
F01 250V 2A
VA02 470V
C06 222/AC400V
L02 BEAD
C03 222/AC400V
POWER CORD
D31 1SR153-400
C31 10uF/100V
D32 1SR153-400
C32 330uF/35V
D33 D3L20U
L03 10uH
C33 1000uF/25V
C34 330uF/25V
L04 10uH
D34 FMB-G14L
C35 2200uF/10V
C36 330uF/25V
D35 1SR153-400
C37 100uF/50V
D36 1SR153-400
C38 100uF/50V
C40 103 Ⓟ
R31 390
R32 1.2K
R33 1K
C39 104 Ⓟ
R34 3K/F
R35 2.2K/F
R36 100/2W
IC03 S431C KA431Z
CN1
1 GND
2 VF+
3 VF-
4 AL 19.5V(HSR)
5 AL 35V(TU VTG)
6 AL 13V(MOTOR B+)
7 -30V
8 AL 5.8V
9 AL 5.8V
TO POWER CN101
HEAT SINK

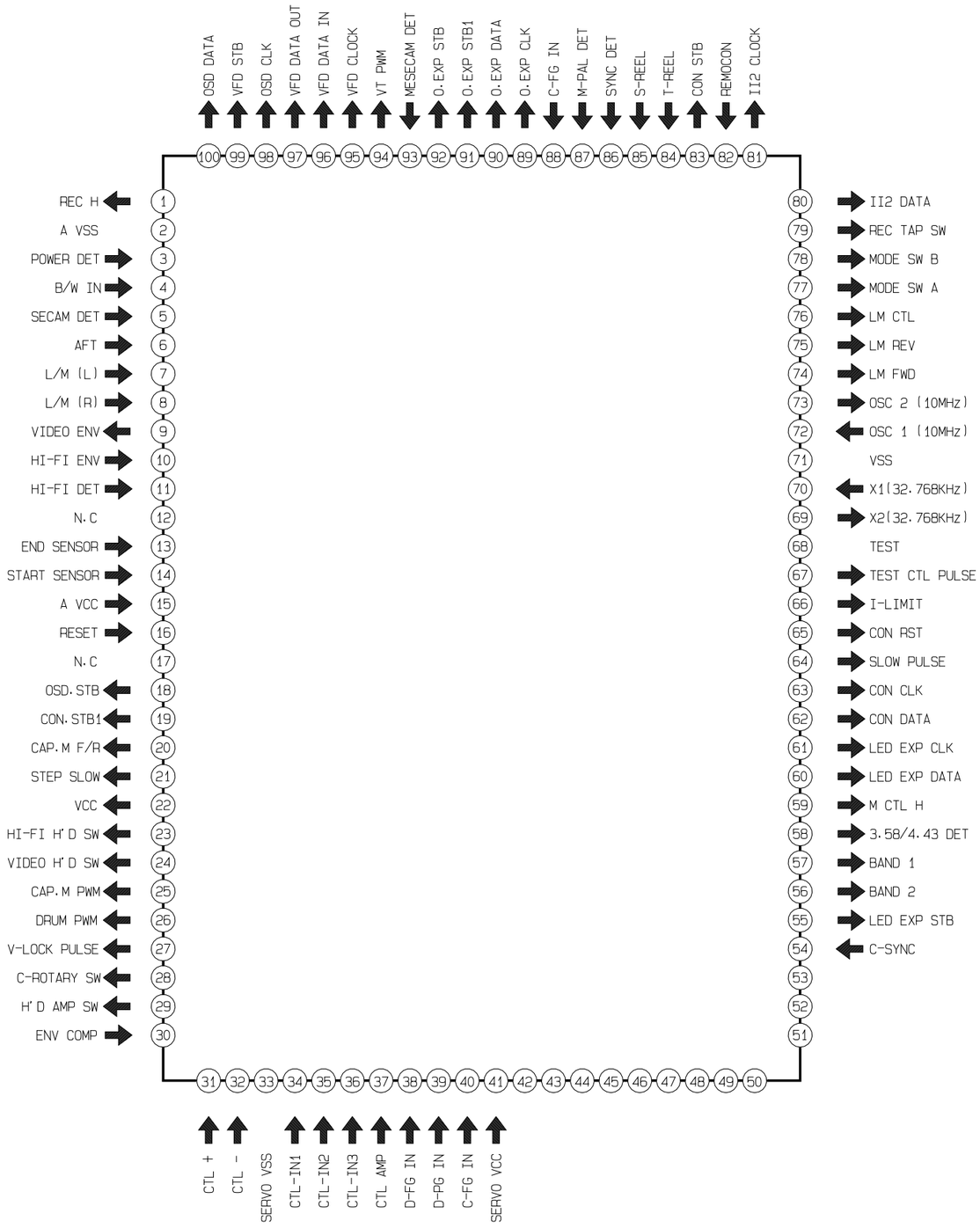
12-3 Power


CN101
1 GND 1
2 VF + 2
3 VF - 3
4 AL 19.5V(HSR) 4
5 AL 35V(TU VTG) 5
6 AL13V(MOTOR B+) 6
7 -30V 7
8 AL 5.8V 8
9 AL 5.8V 9
FROM/TO SMPS CN1
D103 1N4002
D101 1N4002
D104 1N4002
D108 1N4002
Q102 A928
R102 100K
R101 3.9K
D106 1N4002
D107 1N4002
Q101 R1001
C101 4.7/50V
R103 2.2K
IC102 KA7809
IN GND OUT
Q107 A928
R108 1K
R107 1.2K
C106 47/16V
Q106 R1003
C104 1/50V
D102 1N4002
R109 2.2K
IC103 PQ12RF11
IN OUT FBC PWR CTL GND
C108 47/16V
C107 103
R105 560 (1/4W)
*C113 103
C112 47/16V
C109 47/25V
FROM/TO SYSCON/SERVO
SP1 VF+
SP2 VF-
SP3 -30V
SP4 PC5V
SP5 PC 9V
SP6 CM B+
SP7 DM B+
SP8 HSR CTL
SP9 PWR CTL
SP10 LM B+
SP11 AL5.8V
SP12 TU 35V
TO A/V
VP1 AL 12V
VP2 PC 5V
VP3 PC 9V
TO HI-FI AUDIO
PH1 PC9V
PH2 PC5V
Q104 KSC2328
Q105 KSC2328
R106 220 (1/4W)
ZD101 MTZ5.1B
D105 1N4148
C103 1/50V
*C102 103
C105 47/16V
C111 47/16V
IC104 KA7808
IN GND OUT
D6D02 1N4002
CN102
3 AL 8V 3
2 GND 2
1 GND 1
FROM/TO DIGITAL CNA3
* : CHIP PARTS

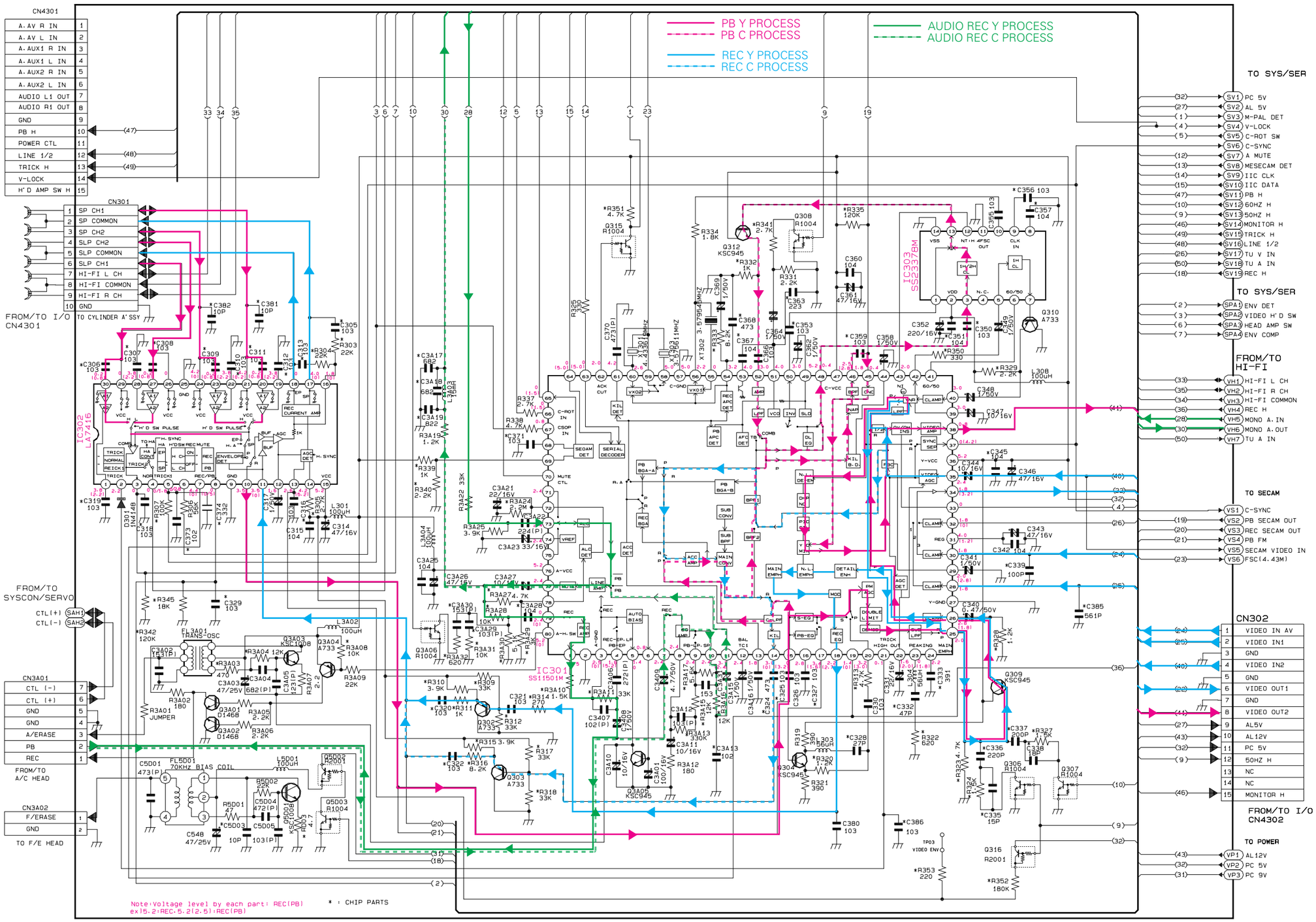
12-4 System Control/Servo



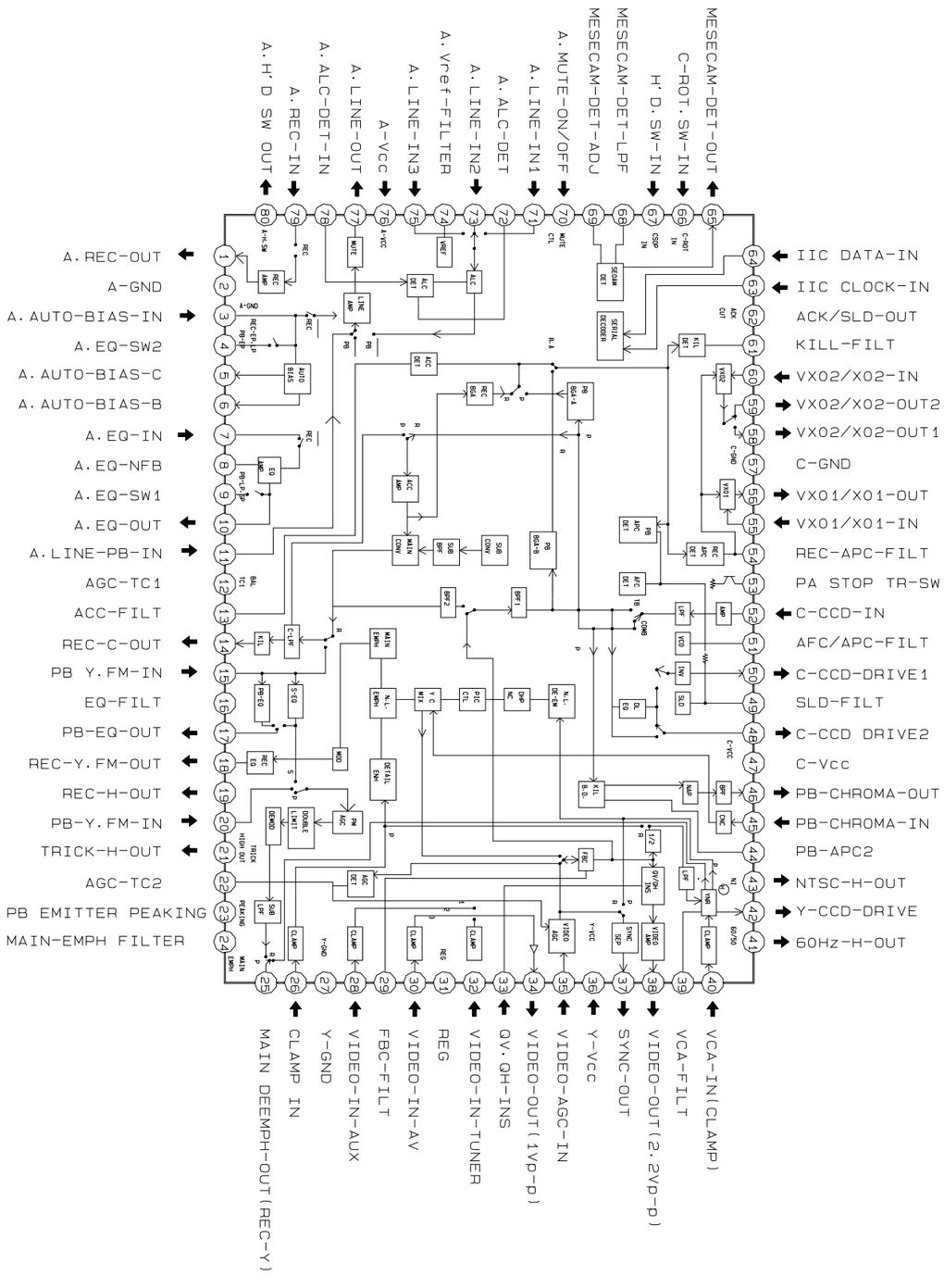
IC601 HD6433977RAF



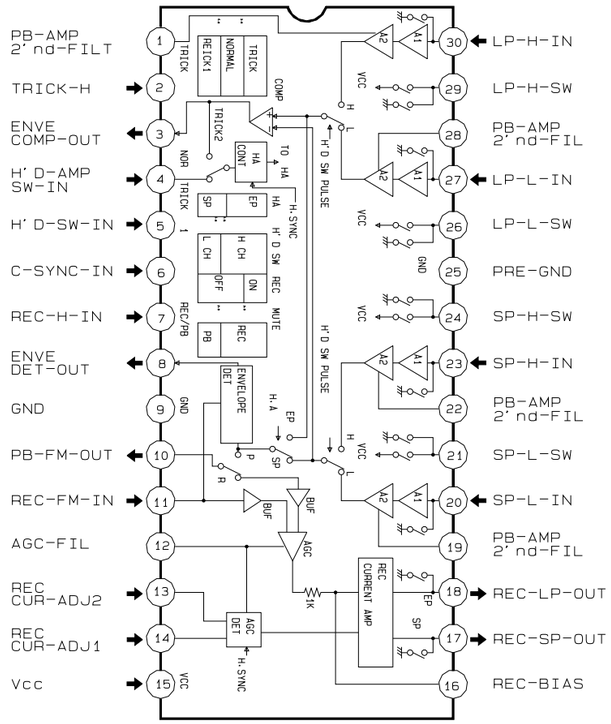
12-5 Audio/Video



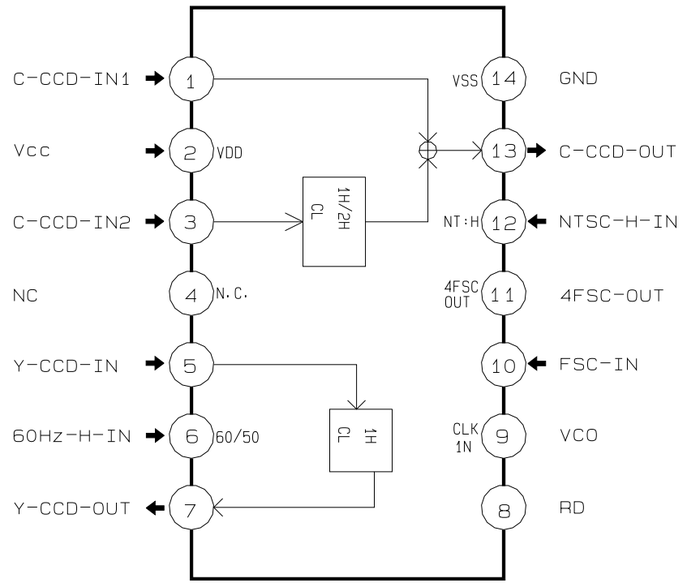
IC301 SS11501M



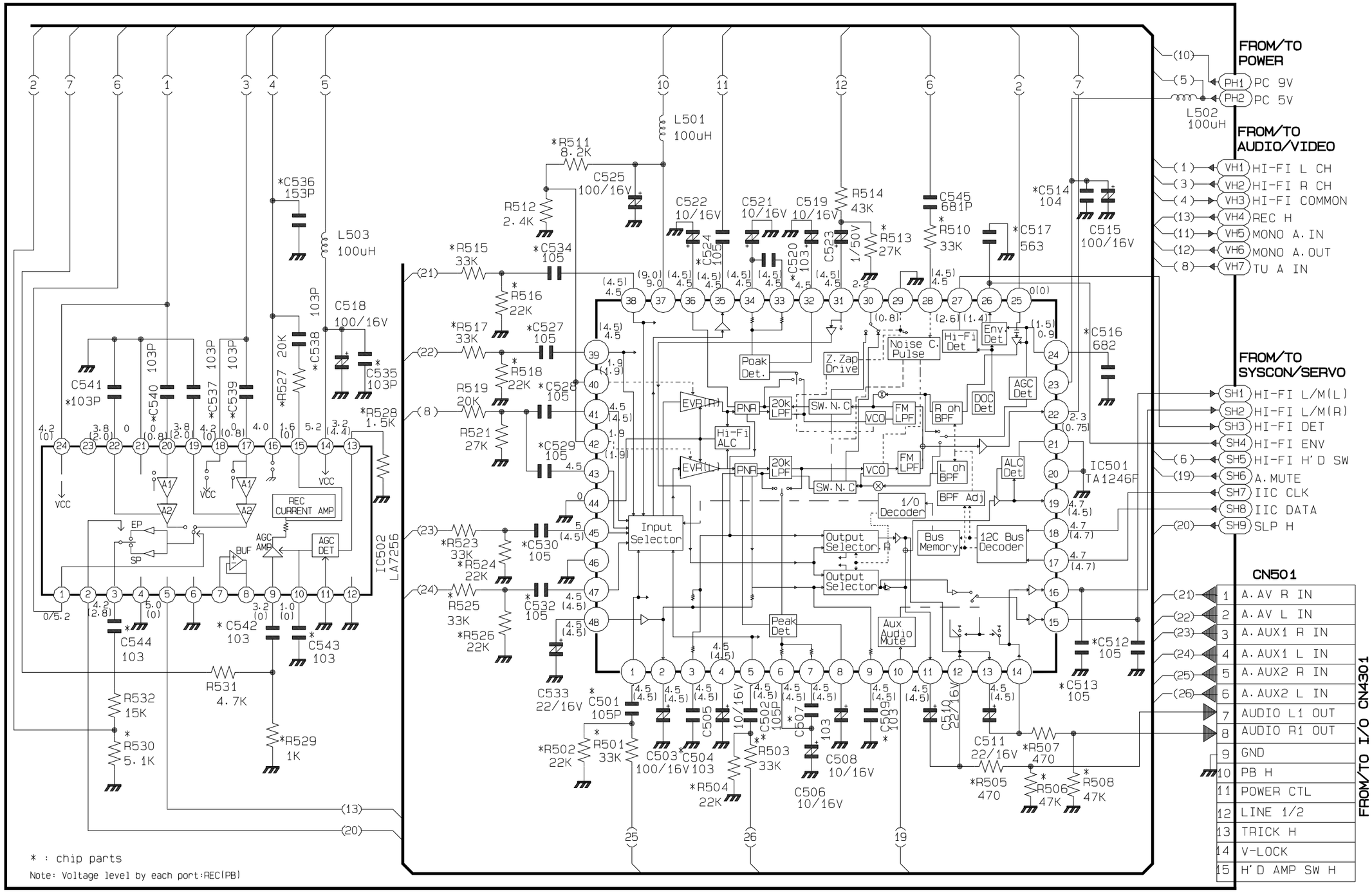
IC302 LA7411



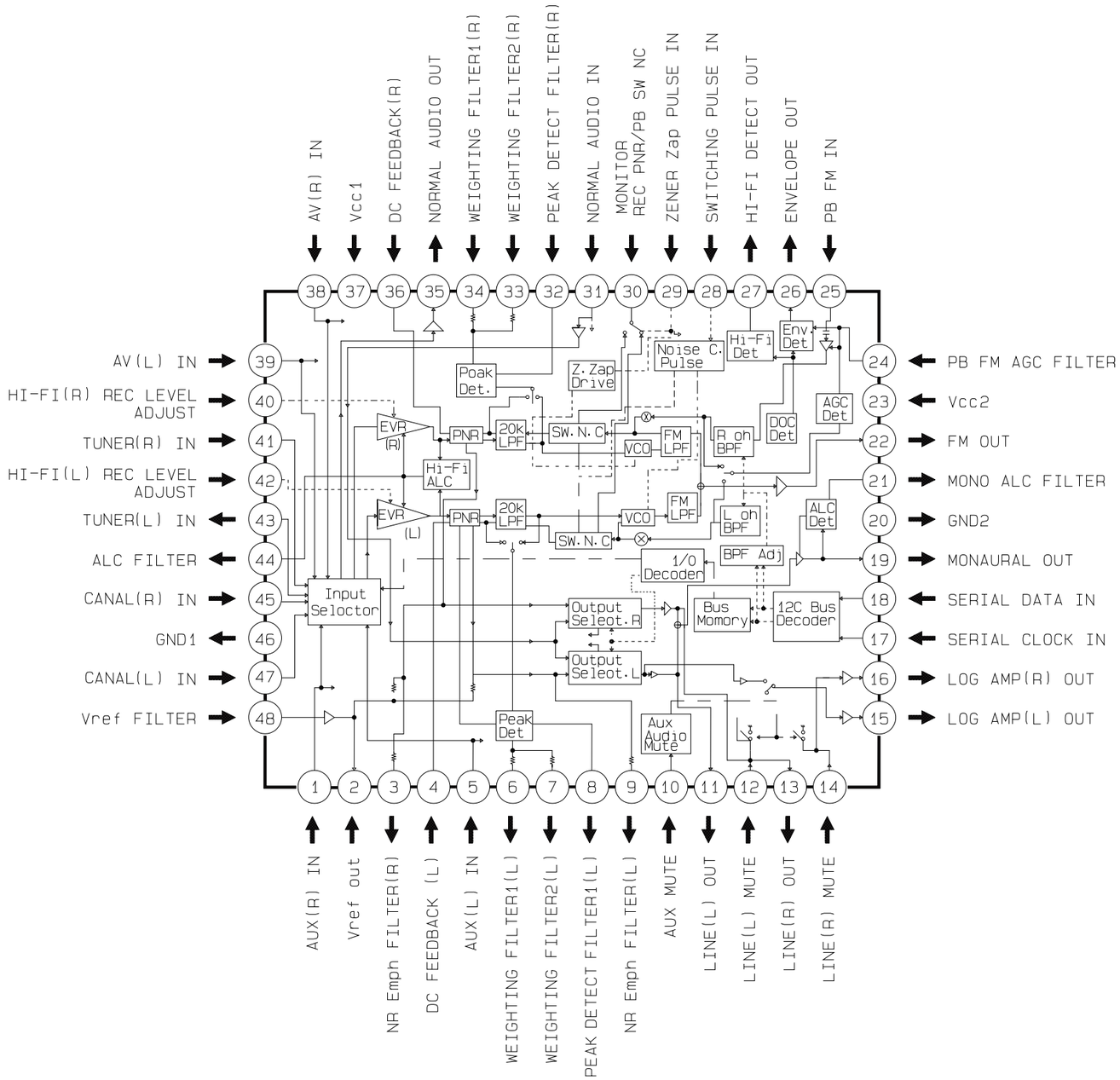
IC303 SS23378M



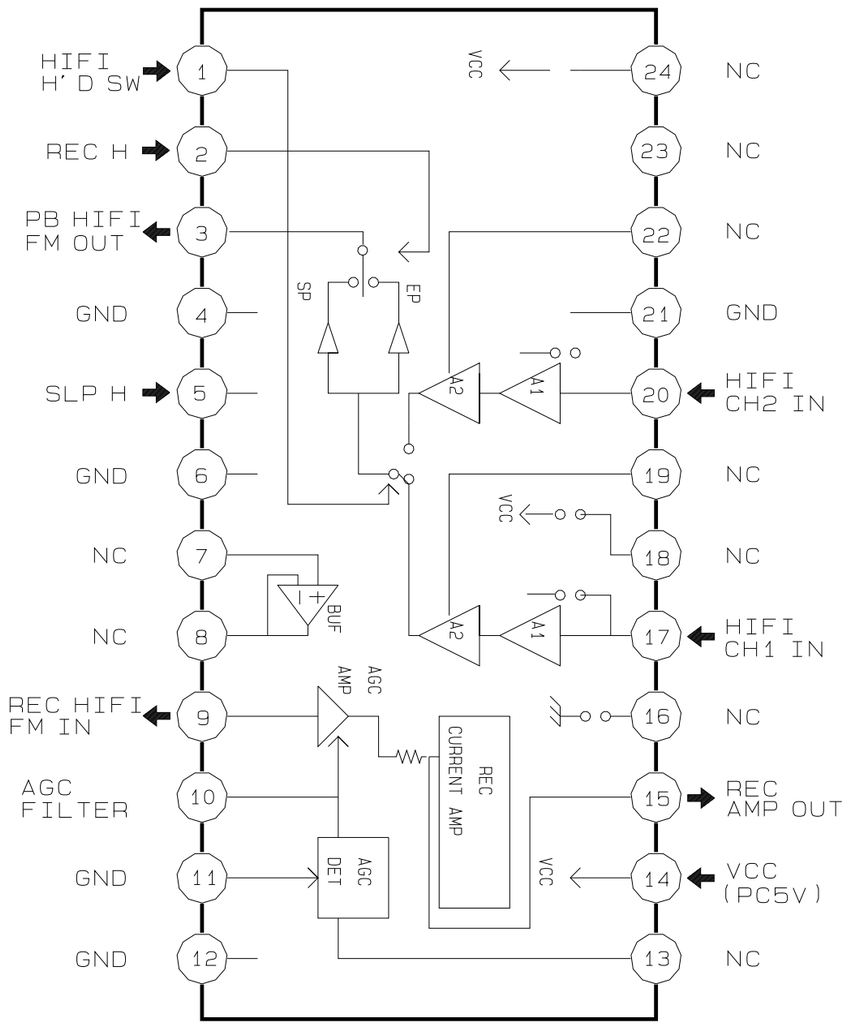
12-6 Hi-Fi Audio



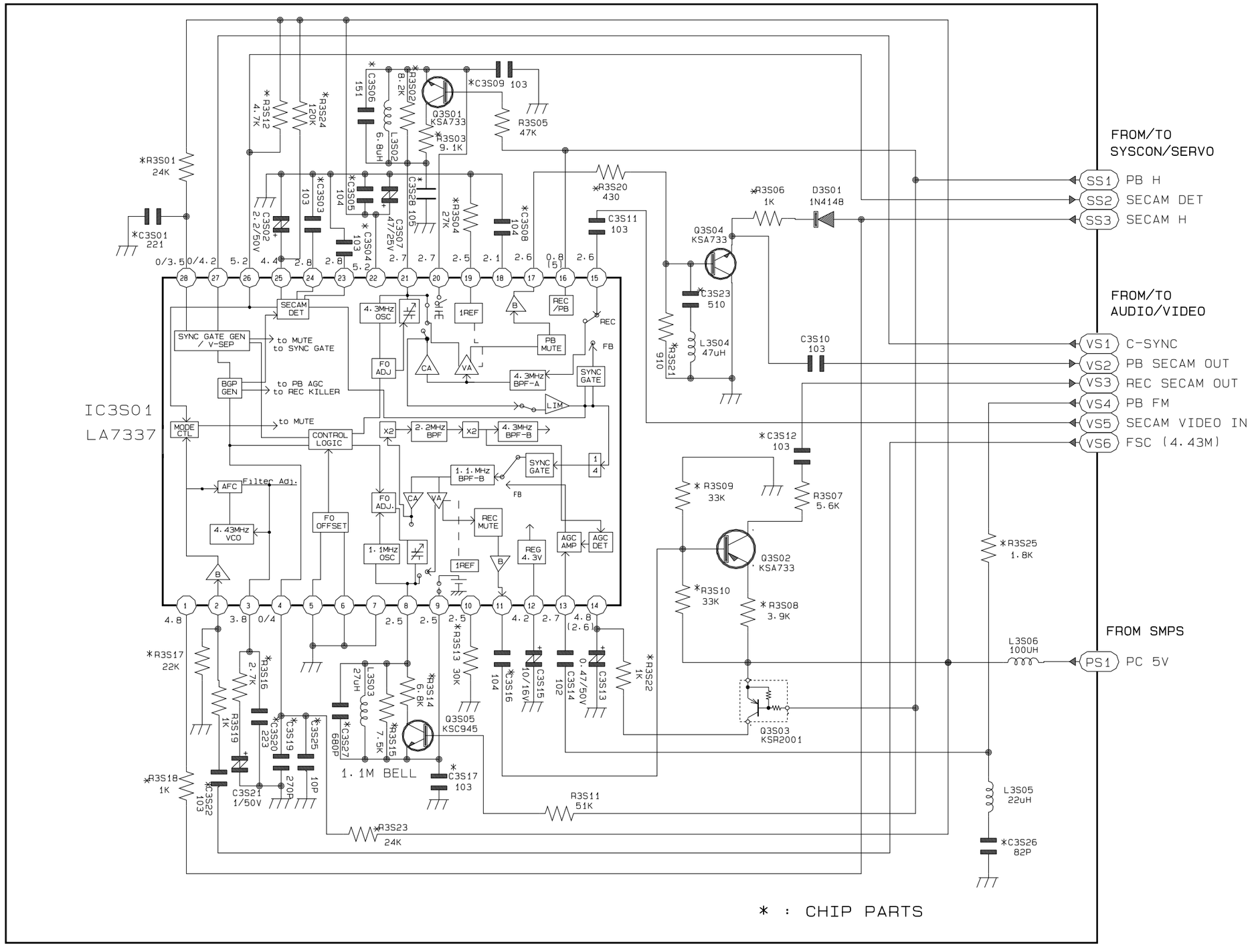
IC501 TA1246F



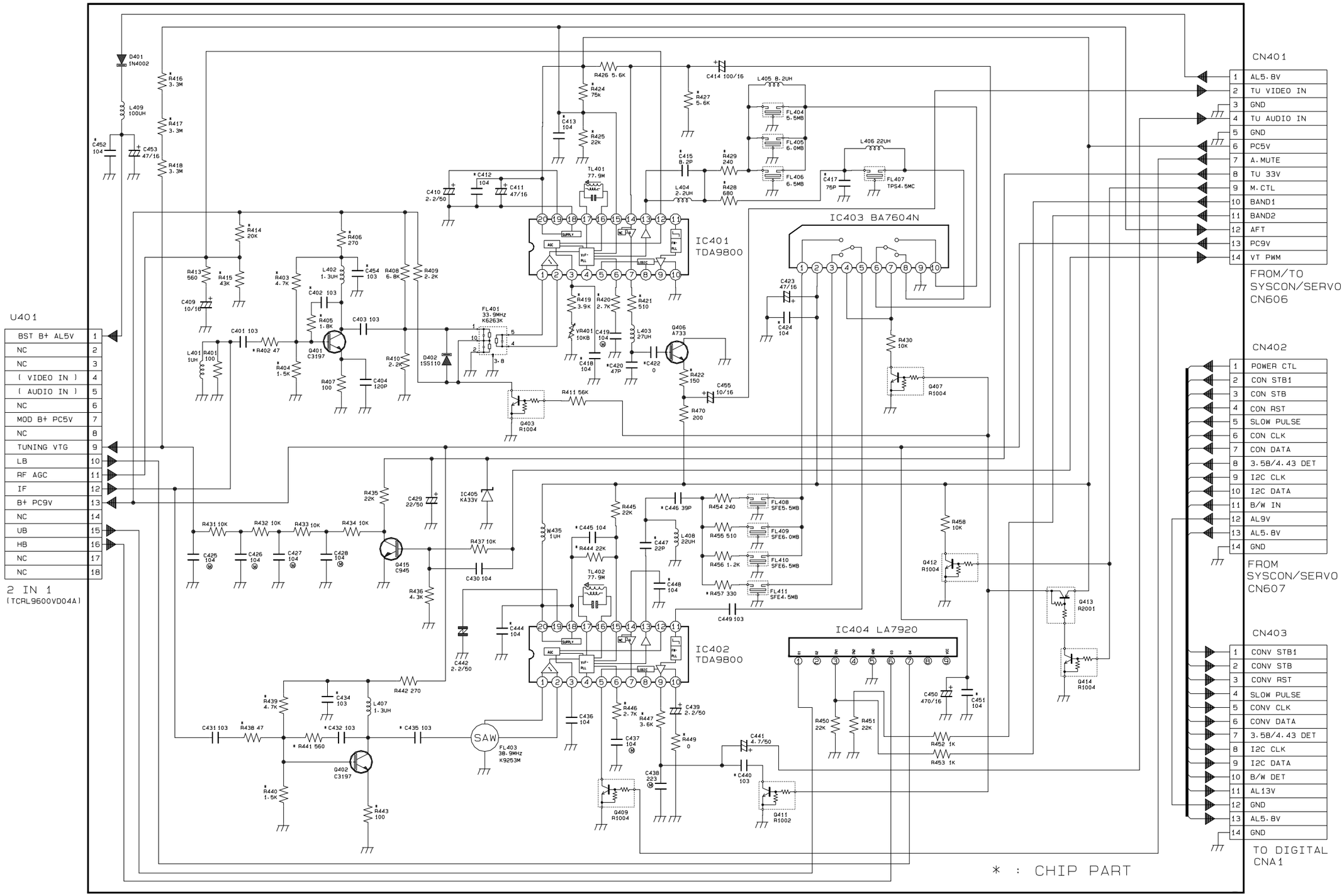
IC502 LA7256



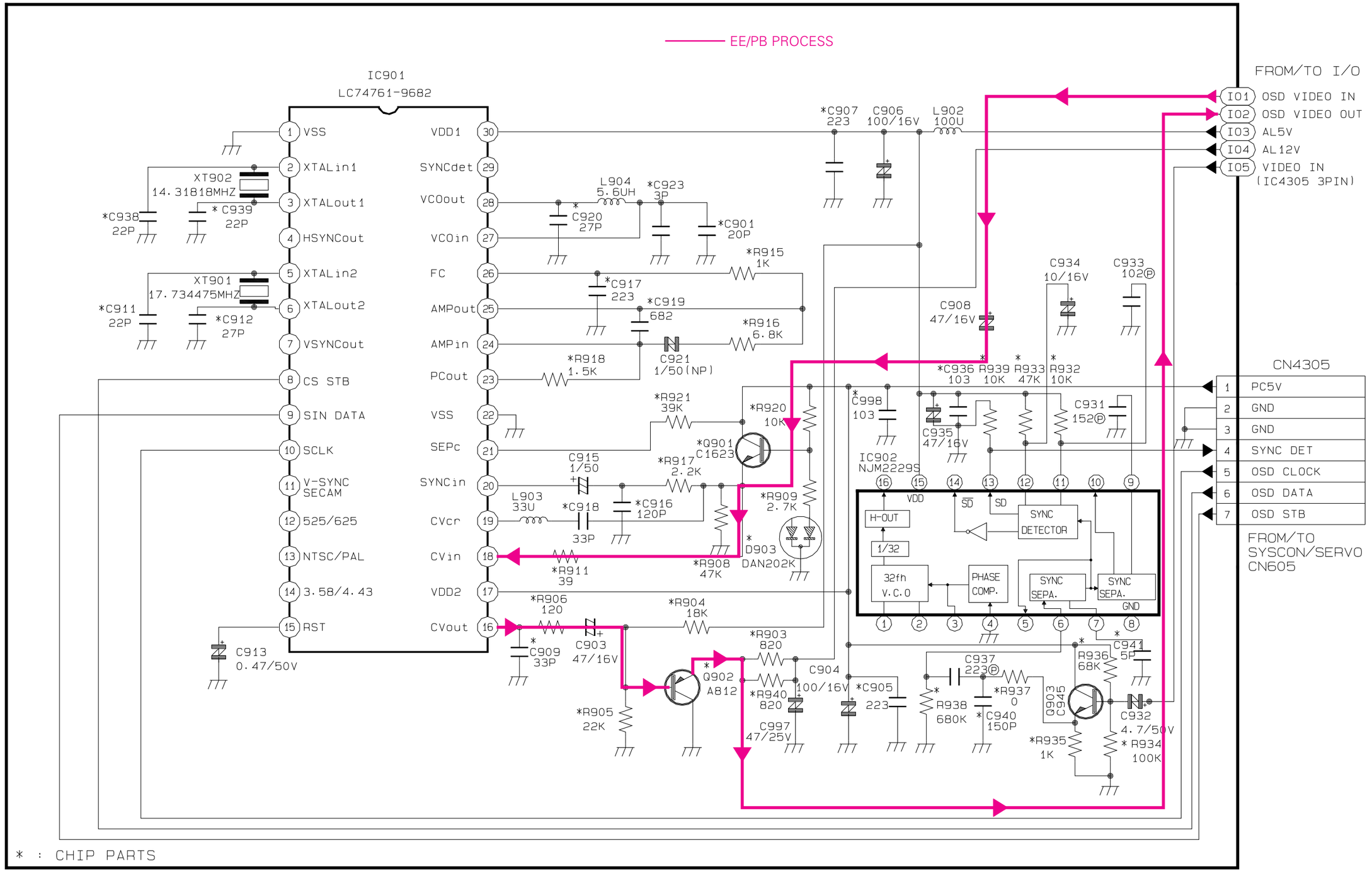
12-7 SECAM


IC3S01
LA7337
FROM/TO
SYSCON/SERVO
SS1 PB H
SS2 SECAM DET
SS3 SECAM H
FROM/TO
AUDIO/VIDEO
VS1 C-SYNC
VS2 PB SECAM OUT
VS3 REC SECAM OUT
VS4 PB FM
VS5 SECAM VIDEO IN
VS6 FSC (4.43M)
FROM SMPS
PS1 PC 5V
1.1M BELL
* : CHIP PARTS

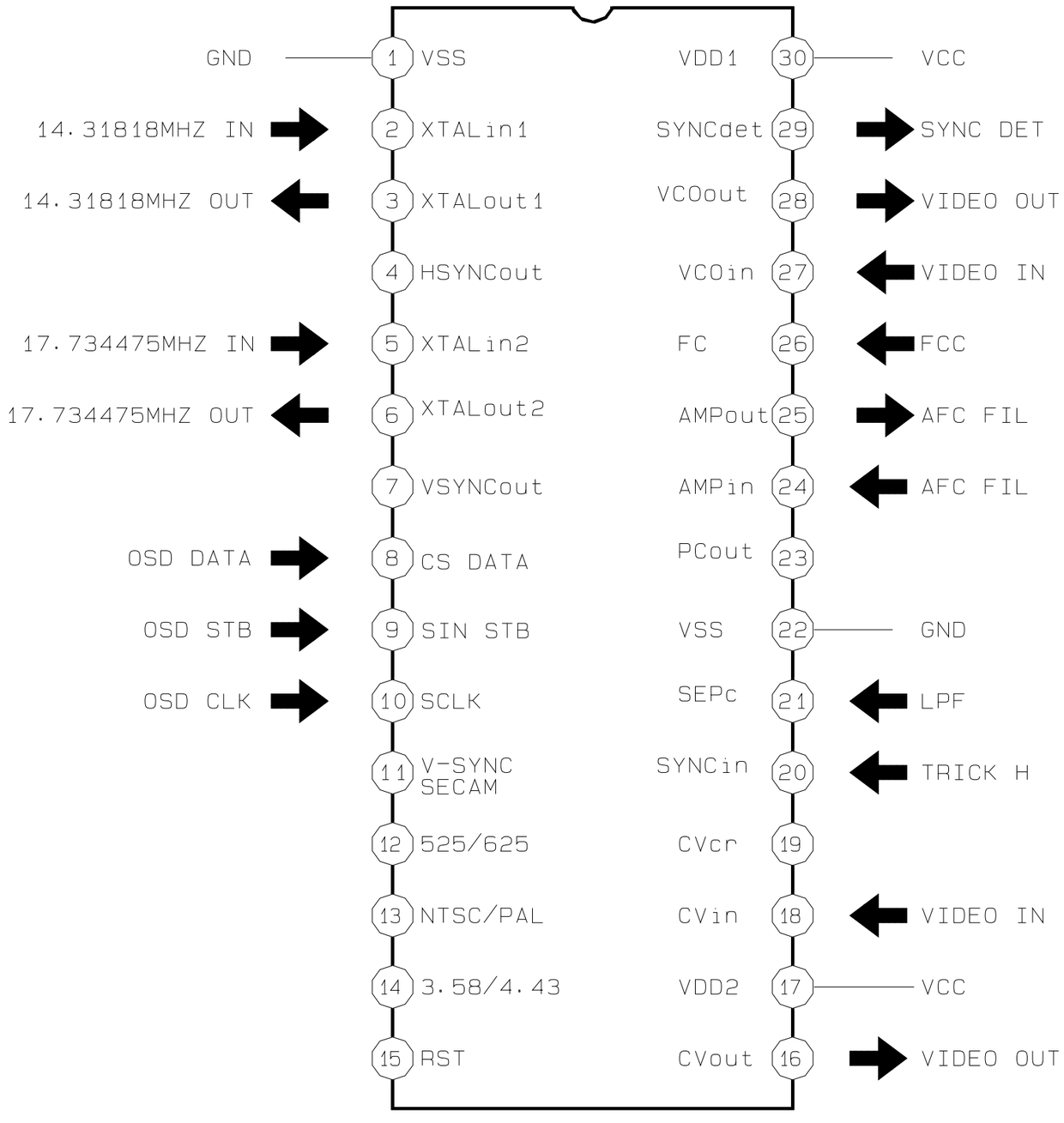
12-8 IF


U401
BST B+ AL5V 1
NC 2
NC 3
(VIDEO IN) 4
(AUDIO IN) 5
NC 6
MOD B+ PC5V 7
NC 8
TUNING VTG 9
LB 10
RF AGC 11
IF 12
B+ PC9V 13
NC 14
UB 15
HB 16
NC 17
NC 18
2 IN 1
(TCRL9600VD04A)
IC401
TDA9800
IC402
TDA9800
IC403 BA7604N
IC404 LA7920
CN401
1 AL5.8V
2 TU VIDEO IN
3 GND
4 TU AUDIO IN
5 GND
6 PC5V
7 A.MUTE
8 TU 33V
9 M.CTL
10 BAND1
11 BAND2
12 AFT
13 PC9V
14 VT PWM
FROM/TO
SYSCON/SERVO
CN606
CN402
1 POWER CTL
2 CON STB1
3 CON STB
4 CON RST
5 SLOW PULSE
6 CON CLK
7 CON DATA
8 3.58/4.43 DET
9 I2C CLK
10 I2C DATA
11 B/W IN
12 AL9V
13 AL5.8V
14 GND
FROM
SYSCON/SERVO
CN607
CN403
1 CONV STB1
2 CONV STB
3 CONV RST
4 SLOW PULSE
5 CONV CLK
6 CONV DATA
7 3.58/4.43 DET
8 I2C CLK
9 I2C DATA
10 B/W DET
11 AL13V
12 GND
13 AL5.8V
14 GND
TO DIGITAL
CNA1
SAW
FL403
38.9MHz
K9253M
* : CHIP PART

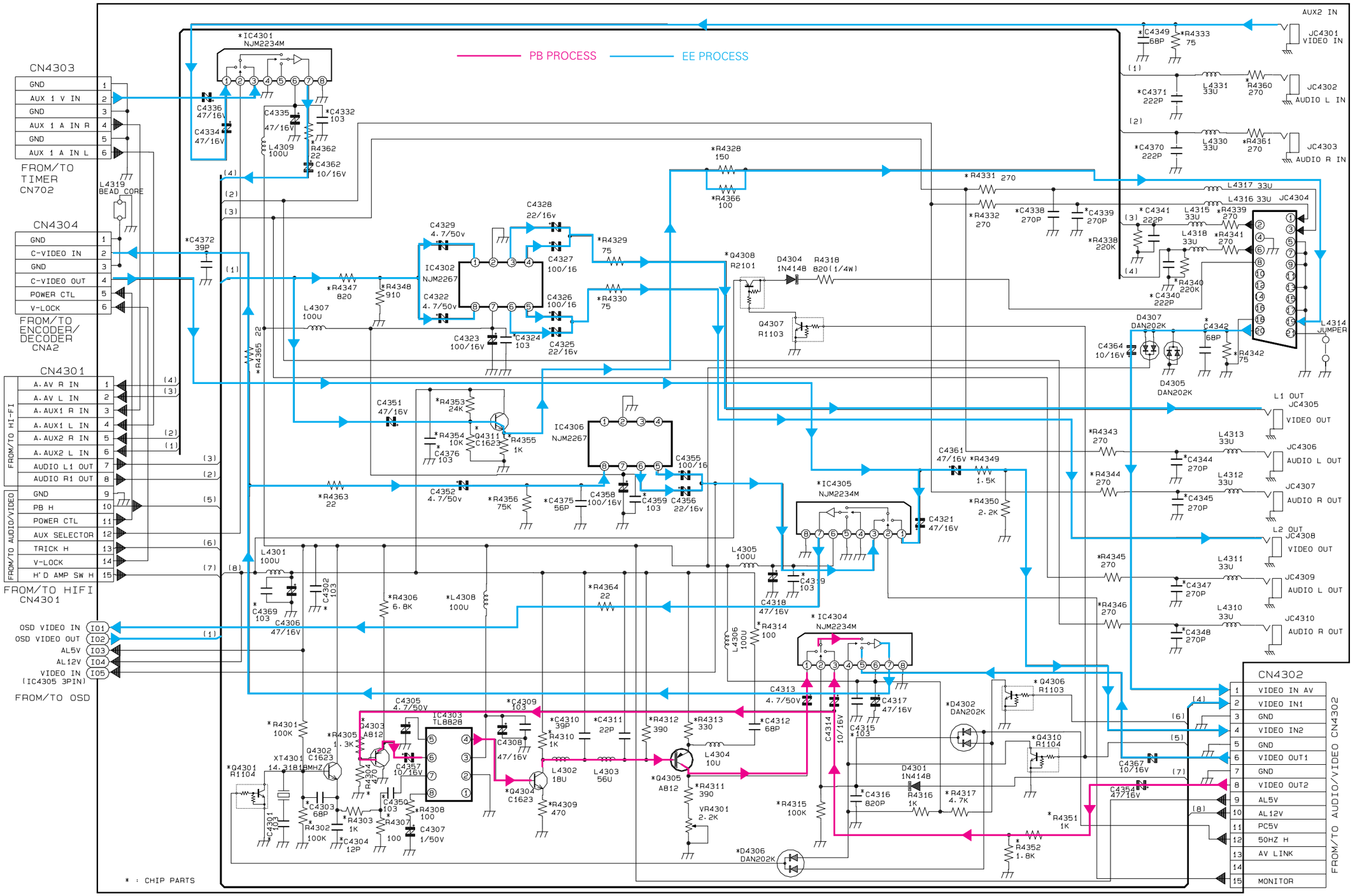
12-9 OSD


EE/PB PROCESS
IC901
LC74761-9682
1 VSS
2 XTALin1
3 XTALout1
4 HSYNCout
5 XTALin2
6 XTALout2
7 VSYNCout
8 CS STB
9 SIN DATA
10 SCLK
11 V-SYNC SECAM
12 525/625
13 NTSC/PAL
14 3.58/4.43
15 RST
30 VDD1
29 SYNCdet
28 VCOout
27 VCOin
26 FC
25 AMPout
24 AMPin
23 PCout
22 VSS
21 SEPc
20 SYNCin
19 CVcr
18 CVin
17 VDD2
16 CVout
XT902 14.31818MHZ
*C938 22P
*C939 22P
XT901 17.734475MHZ
*C911 22P
*C912 27P
C913 0.47/50V
L904 5.6UH
*C923 3P
*C920 27P
*C901 20P
*R915 1K
*C917 223
*C919 682
*R916 6.8K
C921 1/50(NP)
*R918 1.5K
*R921 39K
*R920 10K
*Q901 C1623
C915 1/50
*R917 2.2K
L903 33U
*C918 33P
*C916 120P
*R909 2.7K
*D903 DAN202K
*R911 39
*R908 47K
*R906 120
*R904 18K
C903 47/16V
*C909 33P
*R903 820
*Q902 A812
C904 100/16V
*R940 820
*R905 22K
C997 47/25V
*C907 223
C906 100/16V
L902 100U
C908 47/16V
C934 10/16V
C933 102P
*C936 103
R939 10K
R933 47K
R932 10K
*C998 103
C931 152P
C935 47/16V
IC902 NJM2229S
VDD
SD
SD
H-OUT
1/32
32fn V.C.O
PHASE COMP.
SYNC DETECTOR
SYNC SEPA.
SYNC SEPA.
GND
*C905 223
R938 680K
C937 223P
*R937 0
*C940 150P
C903
C945
*R935 1K
R936 68K
*C941 5P
C932 4.7/50V
*R934 100K
FROM/TO I/O
IO1 OSD VIDEO IN
IO2 OSD VIDEO OUT
IO3 AL5V
IO4 AL12V
IO5 VIDEO IN (IC4305 3PIN)
CN4305
1 PC5V
2 GND
3 GND
4 SYNC DET
5 OSD CLOCK
6 OSD DATA
7 OSD STB
FROM/TO SYSCON/SERVO CN605
* : CHIP PARTS

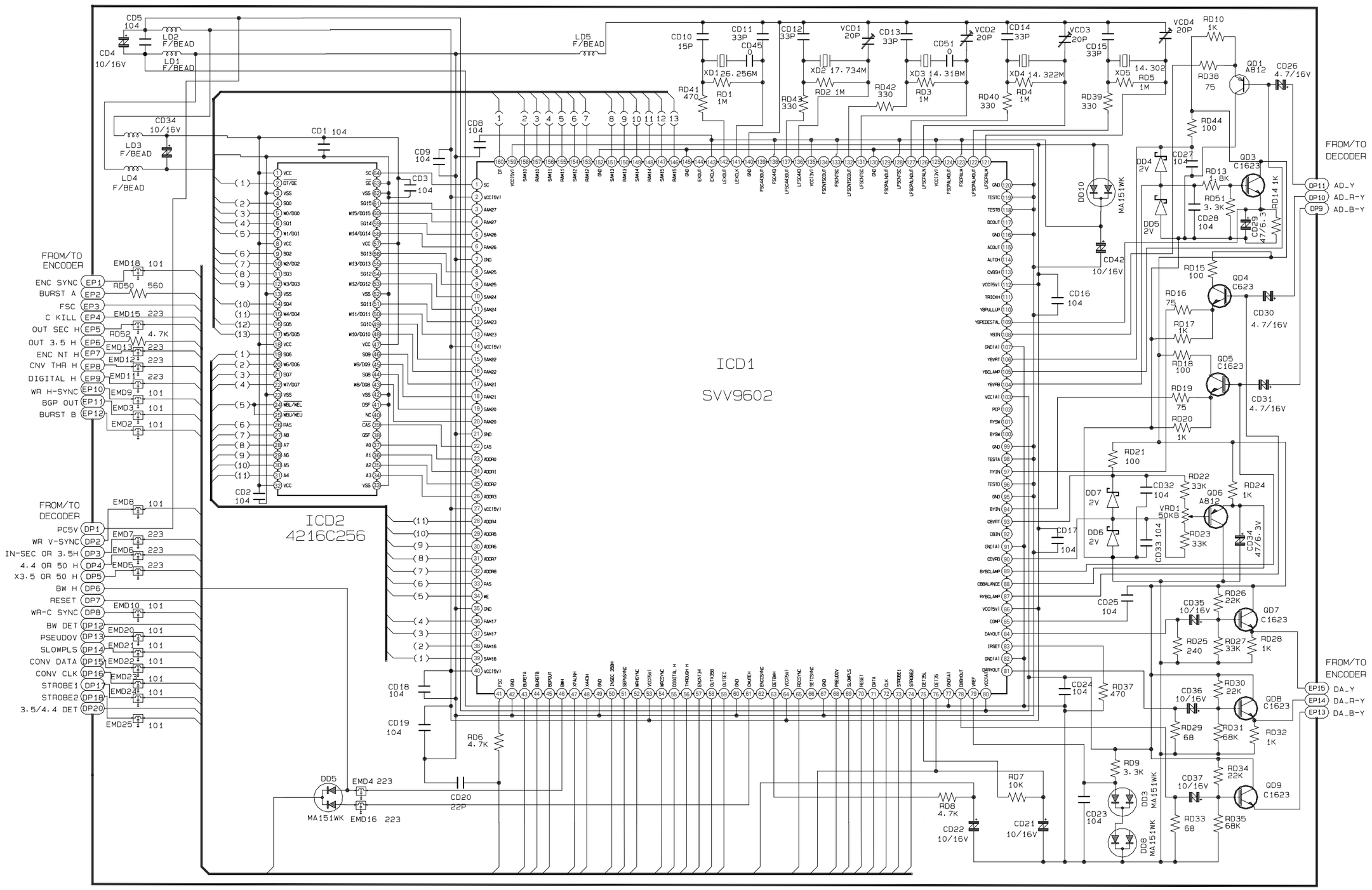
IC901 LC74761-9682



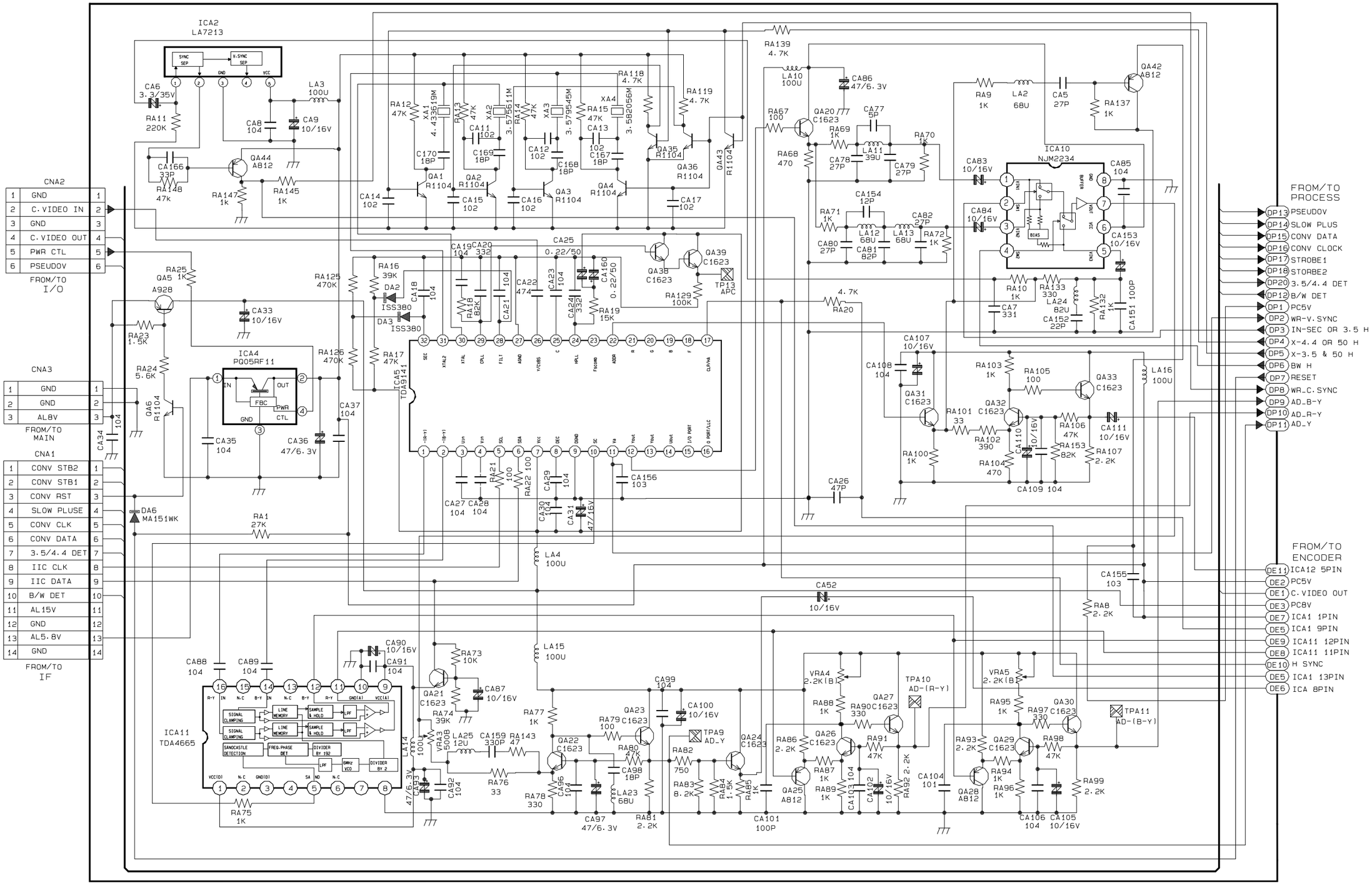
12-10 I/O

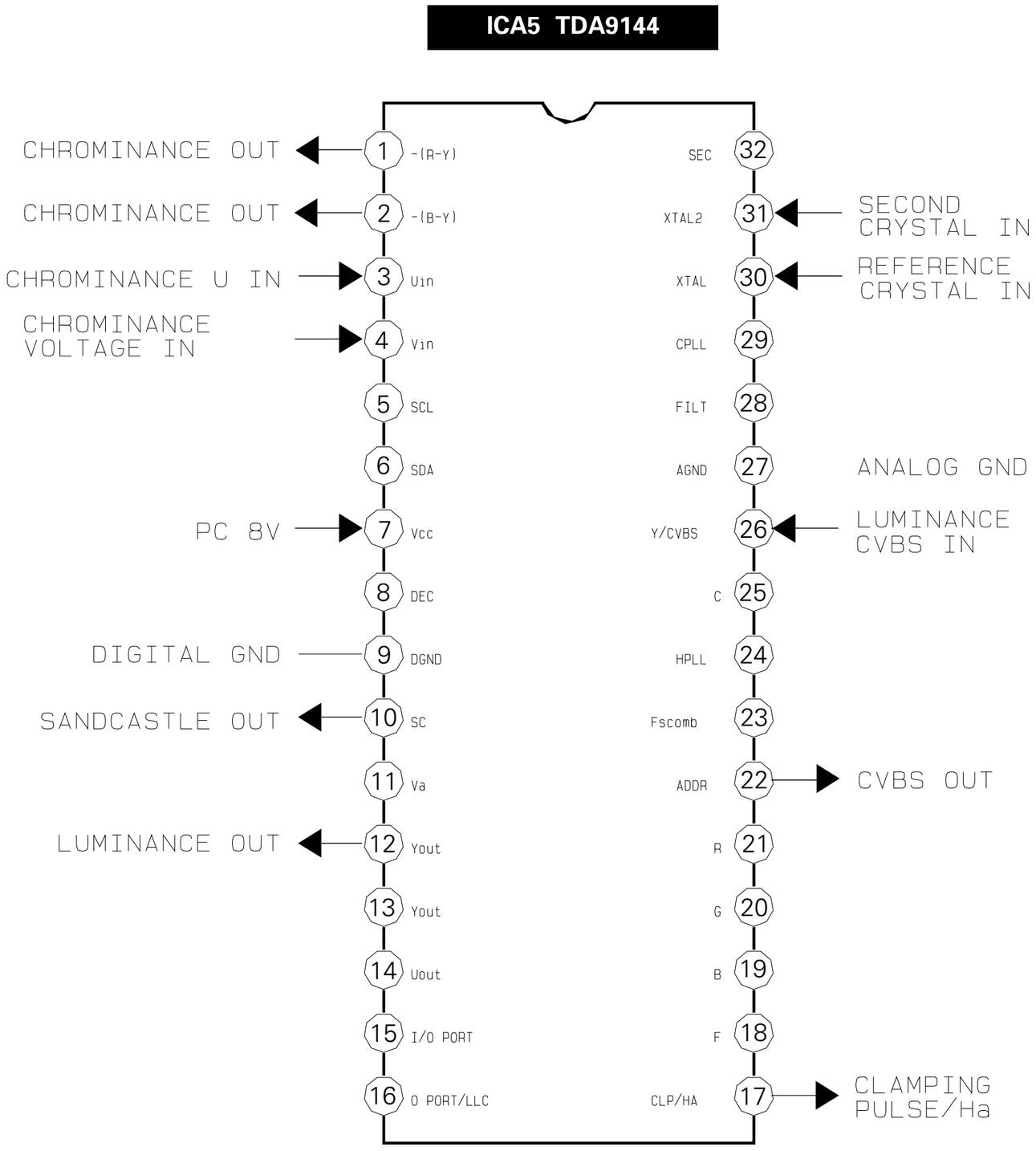

PB PROCESS
EE PROCESS
CN4303
GND 1
AUX 1 V IN 2
GND 3
AUX 1 A IN R 4
GND 5
AUX 1 A IN L 6
FROM/TO TIMER CN702
CN4304
GND 1
C-VIDEO IN 2
GND 3
C-VIDEO OUT 4
POWER CTL 5
V-LOCK 6
FROM/TO ENCODER/ DECODER CNA2
CN4301
FROM/TO HI-FI
A.AV R IN 1
A.AV L IN 2
A.AUX1 R IN 3
A.AUX1 L IN 4
A.AUX2 R IN 5
A.AUX2 L IN 6
AUDIO L1 OUT 7
AUDIO R1 OUT 8
FROM/TO AUDIO/VIDEO
GND 9
PB H 10
POWER CTL 11
AUX SELECTOR 12
TRICK H 13
V-LOCK 14
H'D AMP SW H 15
FROM/TO HIFI CN4301
OSD VIDEO IN IO1
OSD VIDEO OUT IO2
AL5V IO3
AL12V IO4
VIDEO IN (IC4305 3PIN) IO5
FROM/TO OSD
AUX2 IN
JC4301 VIDEO IN
JC4302 AUDIO L IN
JC4303 AUDIO R IN
JC4304
L1 OUT JC4305 VIDEO OUT
JC4306 AUDIO L OUT
JC4307 AUDIO R OUT
L2 OUT JC4308 VIDEO OUT
JC4309 AUDIO L OUT
JC4310 AUDIO R OUT
JUMPER
CN4302
1 VIDEO IN AV
2 VIDEO IN1
3 GND
4 VIDEO IN2
5 GND
6 VIDEO OUT1
7 GND
8 VIDEO OUT2
9 AL5V
10 AL12V
11 PC5V
12 50HZ H
13 AV LINK
14
15 MONITOR
FROM/TO AUDIO/VIDEO CN4302
* : CHIP PARTS

12-11 Process

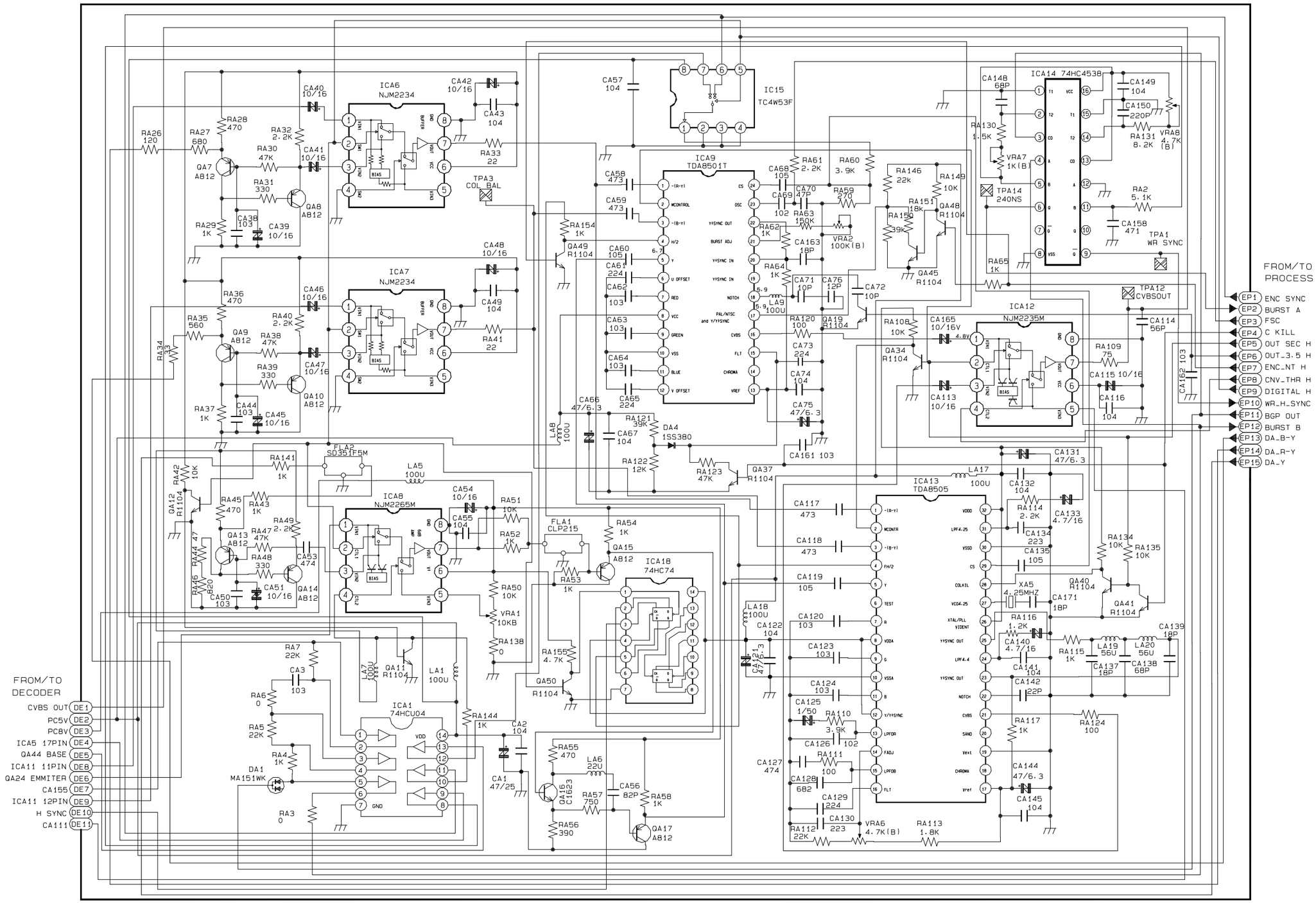


12-12 Decoder

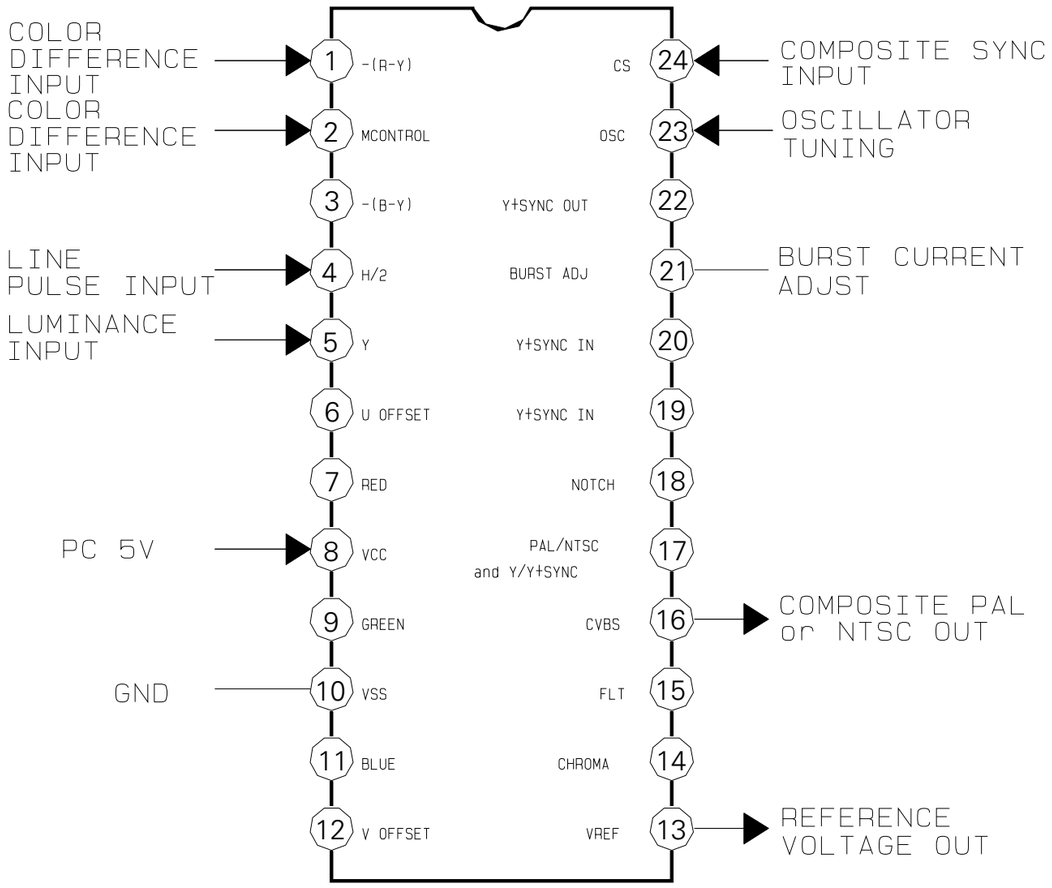



ICA5 TDA9144
CHROMINANCE OUT
1 -(R-Y)
CHROMINANCE OUT
2 -(B-Y)
CHROMINANCE U IN
3 Uin
CHROMINANCE VOLTAGE IN
4 Vin
5 SCL
6 SDA
PC 8V
7 Vcc
8 DEC
DIGITAL GND
9 DGND
SANDCASTLE OUT
10 SC
11 Va
LUMINANCE OUT
12 Yout
13 Yout
14 Uout
15 I/O PORT
16 O PORT/LLC
SEC 32
XTAL2 31
SECOND CRYSTAL IN
XTAL 30
REFERENCE CRYSTAL IN
CPLL 29
FILT 28
AGND 27
ANALOG GND
Y/CVBS 26
LUMINANCE CVBS IN
C 25
HPLL 24
Fscomb 23
ADDR 22
CVBS OUT
R 21
G 20
B 19
F 18
CLP/HA 17
CLAMPING PULSE/Ha

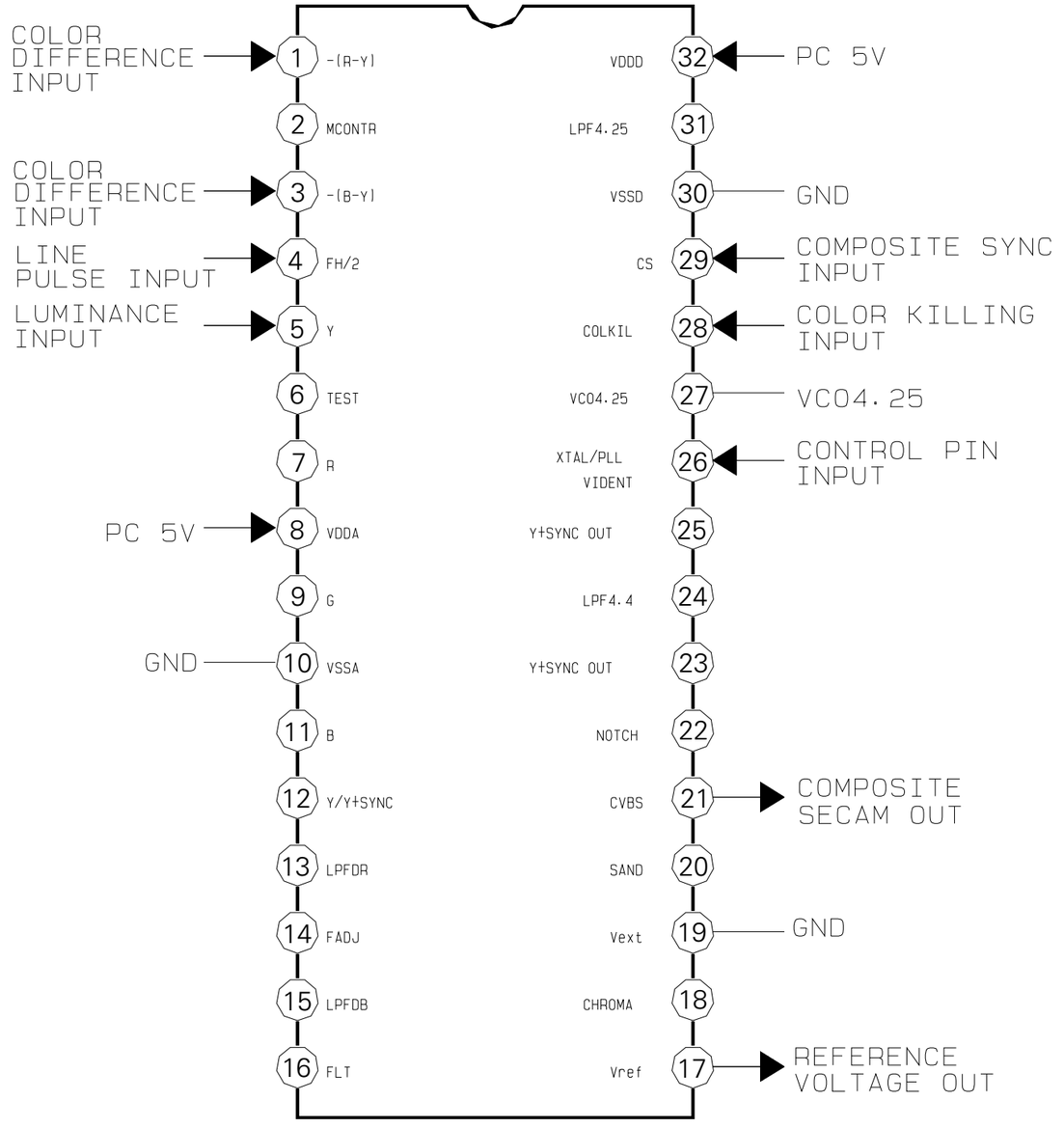
12-13 Encoder



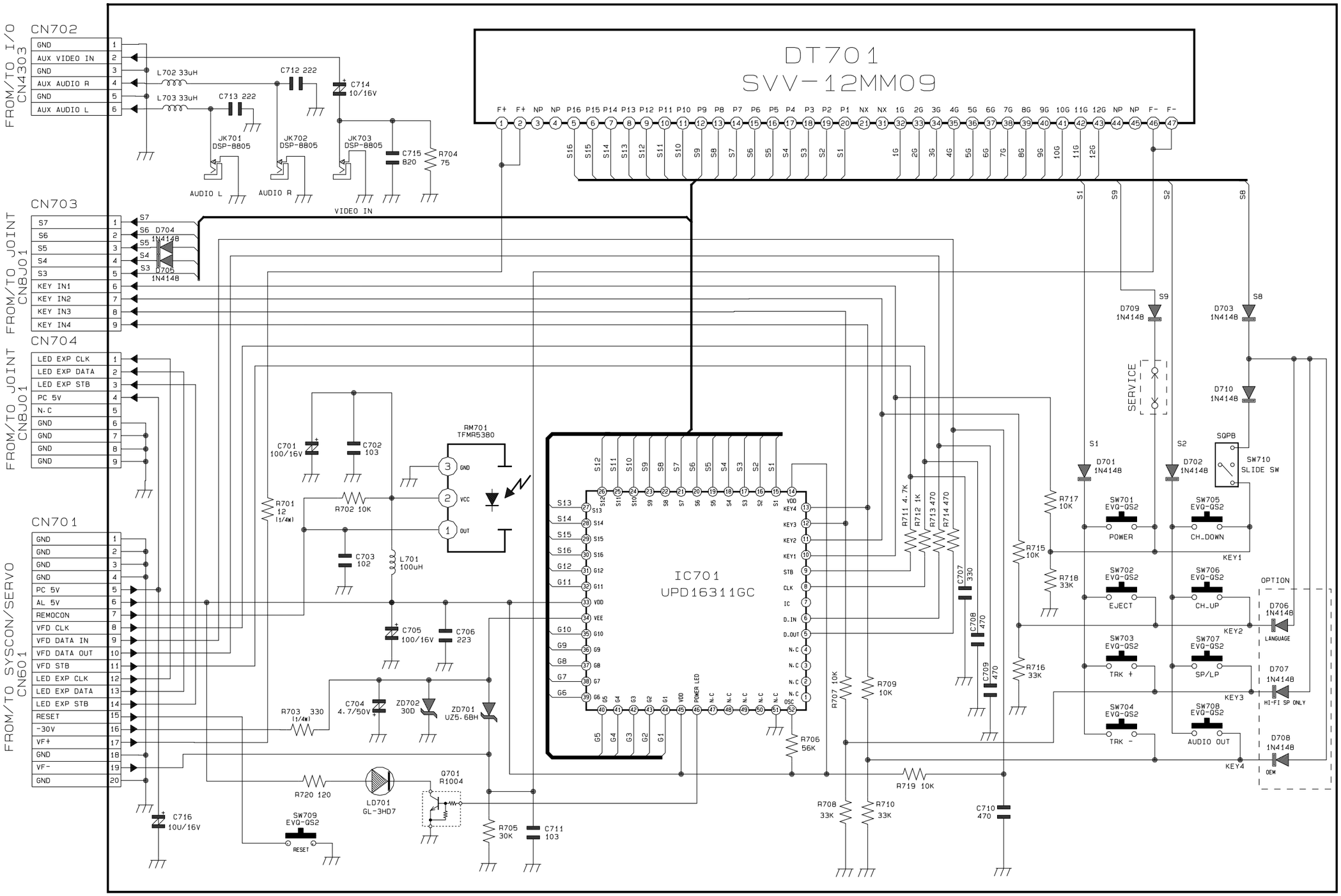
ICA9 TDA8501T



ICA13 TDA8505



12-14 Timer


CN702
FROM/TO I/O CN4303
GND
AUX VIDEO IN
GND
AUX AUDIO R
GND
AUX AUDIO L
L702 33uH
L703 33uH
C712 222
C713 222
C714 10/16V
JK701 DSP-8805
JK702 DSP-8805
JK703 DSP-8805
C715 820
R704 75
AUDIO L
AUDIO R
VIDEO IN
DT701
SVV-12MM09
CN703
FROM/TO JOINT CN8J01
S7
S6
S5
S4
S3
KEY IN1
KEY IN2
KEY IN3
KEY IN4
D704 1N4148
D705 1N4148
CN704
FROM/TO JOINT CN8J01
LED EXP CLK
LED EXP DATA
LED EXP STB
PC 5V
N.C
GND
GND
GND
GND
CN701
FROM/TO SYSCON/SERVO CN601
GND
GND
GND
GND
PC 5V
AL 5V
REMOCON
VFD CLK
VFD DATA IN
VFD DATA OUT
VFD STB
LED EXP CLK
LED EXP DATA
LED EXP STB
RESET
-30V
VF+
GND
VF-
GND
RM701 TFMR5380
GND
VCC
OUT
C701 100/16V
C702 103
R701 12 (1/4W)
R702 10K
C703 102
L701 100uH
C705 100/16V
C706 223
C704 4.7/50V
ZD702 30D
ZD701 UZ5.6BH
R703 330 (1/4W)
R720 120
LD701 GL-3HD7
Q701 R1004
SW709 EVQ-QS2
RESET
C716 10U/16V
R705 30K
C711 103
IC701
UPD16311GC
R706 56K
R707 10K
R709 10K
R711 4.7K
R712 1K
R713 470
R714 470
C707 330
C708 470
C709 470
R719 10K
R708 33K
R710 33K
C710 470
R715 10K
R716 33K
R717 10K
R718 33K
D709 1N4148
D703 1N4148
D710 1N4148
SERVICE
SQPB
SW710 SLIDE SW
D701 1N4148
D702 1N4148
SW701 EVQ-QS2
POWER
SW705 EVQ-QS2
CH_DOWN
KEY1
SW702 EVQ-QS2
EJECT
SW706 EVQ-QS2
CH_UP
OPTION
D706 1N4148
LANGUAGE
KEY2
SW703 EVQ-QS2
TRK +
SW707 EVQ-QS2
SP/LP
D707 1N4148
HI-FI SP ONLY
KEY3
SW704 EVQ-QS2
TRK -
SW708 EVQ-QS2
AUDIO OUT
D708 1N4148
OEM
KEY4

12-15 Joint/Function